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ABSTRACT

An analysis of doctoral productivity for racial/ethnic groups is presented, comparing the number of doctoral degrees earned between 1975 and 1986 by the 1975-82 baccalaureate recipients of each U.S. institution. The data are analyzed for men and for women of five racial/ethnic groups (American Indians, Asians, Blacks, Hispanics, and Whites). Statistics include the following: Whites received 91.2% of the doctorates earned by the 75-82 graduates, Indians .03%, Asians 4.2%, Blacks 2.3% and Hispanics 2.0%; Whites received 88.4% of all the doctorates earned in 1986, Indians 0.4%, Asians 4.4%, Blacks 4.0% and Hispanics 2.8%; of the 140 institutions listed for one or more of the racial/ethnic groups for men, 36 were listed only for White men; of the 104 institutions listed for one or more of the racial/ethnic groups for women, 43 were listed only for White women; and there is a declining number of Blacks earning doctorates. Appended are (1) institutions included in lists of leading baccalaureate sources of 1975-86 doctorates earned by individuals receiving baccalaureate degrees 1975-82 from U.S. institutions and (2) doctorates awarded by U.S. institutions between 1975 and 1986 to 1975-1982 baccalaureate recipients with temporary U.S. visas as well as institutions whose 1975-82 graduates with temporary U.S. visas had earned at least four doctorates from a U.S. institution in any field by 1986. Contains 14 references. (SM)

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BACCALAUREATE SOURCES OF 1975-1986 DOCTORATES EARNED BY AMERICAN INDIAN, ASIAN, BLACK, HISPANIC AND WHITE MEN AND WOMEN WHO RECEIVED BACCALAUREATE DEGREES 1975-1982: TOTAL NUMBERS ADJUSTED FOR INSTITUTIONAL SIZE

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Prepared for the Ford Foundation
January 1989

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BACCALAUREATE SOURCES OF 1975-1986 DOCTORATES EARNED BY AMERICAN INDIAN, ASIAN, BLACK, HISPANIC AND WHITE MEN AND WOMEN WHO RECEIVED BACCALAUREATE DEGREES 1975-1982

Recent studies and projections confirm that as early as the mid-1990s, the United States will face increasing shortages of individuals with doctoral degrees, prepared to fill research and teaching positions in colleges, universities, and research organizations. Significantly more students need to be encouraged to pursue graduate studies if these needs are to be met. There has been particular concern about the generally low numbers of minority students choosing to pursue advanced degrees.

One-Third of a Nation, a recent report by The Commission on Minority Participation in Education and American Life highlighted the underrepresentation of minorities at each level of higher education (1988). The Commission has called upon higher-education institutions to recruit minority students more aggressively, and to provide an academic atmosphere that will promote retention and success for minority students. Special emphasis was urged for the recruitment of minority faculty and administrators. As minority participation is increased at each level it can be expected to improve the academic atmosphere for minorities at successive levels. Greater minority representation at the doctorate level will encourage increased minority participation and success at the undergraduate level.

The undergraduate years are clearly a crucial time of decision and preparation for students to pursue the doctoral degree. It is useful to learn which institutions have been most productive of graduates who go on to earn a doctoral degree, and particularly which institutions have been most successful in preparing and encouraging their minority graduates to pursue advanced degrees. This study compares the number of doctoral degrees earned between 1975 and 1986 by the 1975-1982 baccalaureate recipients of each U.S. institution. These data are analyzed separately for men and for women for five racial/ethnic groups: American Indians, Asians, Blacks, Hispanics, and Whites.

Racial/ethnic identification has been available for data on baccalaureate and doctoral degrees only since the 1975-76 academic year (and even then, not for every baccalaureate year). While one might wish for an analysis covering a longer time period, this study makes use of the data now available for an analysis of doctoral productivity for racial/ethnic groups. There are some limitations in using such a brief time period, as we will note later.

The total number of doctorates earned by the graduates of each institution were provided by the National Research Council. These data were obtained by the National Research Council from questionnaires filled in by the individuals as they completed their doctoral degrees.*

The doctoral degree data compiled by the National Research Council includes both citizenship and racial/ethnic identification for each doctoral degree recipient. However, the baccalaureate data were available by race only for U.S. citizens and permanent U.S. residents. Therefore, doctorates earned by nonresidents were excluded from these analyses. The data for the nonresidents are reported in Appendix B.

This study includes the doctorates earned between 1975 and 1986 by those receiving baccalaureate degrees between 1975 and 1982. Looking at the doctorates earned by baccalaureate degree recipients for a particular period provides the advantage of specifying the particular undergraduate years leading to the choice made by these individuals to pursue a doctoral degree. This method was first employed by Tidball (1986). This method is critical for racial/ethnic analyses since the numbers of minority baccalaureate recipients have been very small and highly variable for many institutions. Since some individuals take a significantly longer time to complete the doctoral degree, these data do not provide a complete picture of the final doctorate attainment for this group of baccalaureate degree recipients. This is particularly true for those pursuing degrees in education and in the humanities.

Coyle (1986, 1987) has summarized all of the doctoral degrees conferred by U.S. institutions between 1960 and 1986 (regardless of year of baccalaureate degree). Coyle's data represent a much broader baccalaureate base--the doctorates earned by those receiving baccalaureate degrees between 1975 and 1982, reported in this study, represent a subset of that larger group. Coyle (1987) reported the median time between baccalaureate and doctorate for all 1986 doctorate recipients (any baccalaureate year) was shortest for the science fields (7.3 years for physical science, 8.1 for engineering, 8.7 for

*The groupings of disciplines are those used by the NRC in organizing doctoral data. The field of humanities includes history, English and American language and literature, foreign languages and literature, and "other" humanities. Math and physical science includes mathematics, computer sciences, physics and astronomy, chemistry, and earth, atmospheric and marine sciences. Life science includes biosciences, health sciences, and agricultural sciences. Social science includes psychology, economics, anthropology and sociology, political science and international relations, and "other" social sciences. "All fields" includes humanities, the science fields, education, professional fields and "other" fields.

The total number of baccalaureate degrees for men and women from each institution were obtained from the Department of Education for each year 1975-1982. Racial data for baccalaureate degrees were reported during this period only for the years 1975-76, 1976-77, 1978-79 and 1980-81.

the life sciences, and 10 years for the social sciences) and longest for education (15.7 years). The median time-to-degree was nearly 12 years for the humanities. Data for the 1975-82 graduates, therefore, can be expected to include a smaller proportion of education and humanities degrees than this group ultimately will earn.

Coyle (1986) concluded that the overall time-to-degree variations observed across sex and racial/ethnic groups were due primarily to the different proportions of these groups attaining degrees in each field. Tables 1-6 summarize the doctorates for the 1975-82 baccalaureate group by race, sex, field and U.S./foreign institutions. The doctorates earned by the 1975-82 graduates were compared with all of the doctoral degrees earned by U.S. citizens and permanent residents in 1986. Men received 61% of all of the doctorates received in 1986, and 71% of the degrees earned by the 1975-82 baccalaureate group. The greater proportion of men in the 75-82 baccalaureate group is due in part to field selection--men are more likely than women to complete doctorates in fields with shorter baccalaureate-doctorate intervals. The women in the 75-82 baccalaureate group also may be taking longer to complete the doctorate than women in previous baccalaureate groups. Coyle (1986, 1987) compared baccalaureate to doctorate time intervals for the doctorates earned each year between 1976 and 1986. In general, the interval was greater for women than for men and "increased steadily" over the decade both for men and for women. In addition, overall the increase in the interval was greater for women than for men. The situation reverses for men and women in engineering and the physical sciences, however. In these fields women took less time to complete the doctorate than men, and, while both men and women took longer to complete doctorates earned in these fields in 1986 than in 1976, the interval increased more for men than for women.

Whites received 91.2% of the doctorates earned by the 75-82 graduates, Indians 0.3%, Asians 4.2%, Blacks 2.3%, and Hispanics 2.0%. Whites received 88.4% of all the doctorates earned in 1986, Indians 0.4%, Asians 4.4%, Blacks 4.0%, and Hispanics 2.8%. The differences in the proportionate representation of each racial/ethnic group is due in part to field choices--Blacks and Hispanics have been more likely to complete doctorates in fields with longer baccalaureate-to-doctorate intervals (Coyle, 1986; Brown, 1987). However, since the data for the 75-82 graduates represent a more recent baccalaureate group, these data may also reflect overall changes in the rates with which members of different racial/ethnic groups are attaining advanced degrees. Brown (1988) summarized the minority trends in doctorate production since 1975: the number of minorities has increased while the number of Whites has decreased, the proportions of Asians and Hispanics have increased while the proportion of Blacks has decreased. Coyle's (1986, 1987) summaries reveal that while the total number of minorities earning doctorates increased from 1976-1986 (2527 to 2769), the number for Blacks decreased from 1149 to 946. The

numbers for Indians rose from 40 to 99, for Asians from 975 to 1050, and for Hispanics from 363 to 674. The number for Whites decreased from 24,943 to 21,130.

Since the doctorates earned through 1986 by the 75-82 graduates are assumed to include proportionately more science degrees, and proportionately fewer education and humanities degrees, than this group can be expected to receive ultimately (due to the time-to-degree variations across field), distributions across fields are expected to be different for the 1975-82 graduates than for the larger baccalaureate group represented in the data reported by Coyle (1987) for all doctoral degrees earned in 1986. The proportion of each racial/ethnic group earning doctorates in the humanities or in the social sciences are comparable for the two baccalaureate groups. As expected, the percentage of doctorates earned in education was much lower and the percentage of doctorates earned in the natural sciences or engineering was much higher for the 1975-82 graduates than for the larger baccalaureate group represented in all of the doctorates earned in 1986. It is interesting to note, however, that the field distributions for the racial/ethnic groups among the 1975-82 graduates reflect those reported by Coyle for the 1986 doctorate recipients. Among the 1986 doctorates, one-third of the doctorates earned by Indians were in the natural sciences or engineering, one-fourth in education and 20% in the social sciences. Two-thirds of the Asians earned doctorates in engineering or the natural sciences. Half of the doctoral degrees earned by Blacks were in education and 20% were in the social sciences. (Bond reported that 32% of the doctorates earned by Blacks in 1957 were in education and 21% in the social sciences. He suggested that this high percentage in education probably was because a relatively large proportion of this group, compared to all college students, came from the families of teachers. Whether this explanation still applies for Blacks earning doctorates thirty years later is not clear.) One-third of the doctoral degrees earned by Hispanics were in education, one-fourth in social science and one-fourth in the natural sciences and engineering.

Among the 1975-82 graduates, one half of the doctoral degrees earned by Indians were in engineering or the natural sciences, 20% in the social sciences and 17% in education. More than three-fourths of the degrees earned by Asians were in engineering or the natural sciences. One-third of the doctorates earned by Blacks were in the natural sciences or engineering, one-third in the social sciences, one-fourth in education. Almost one-half of the doctorates earned by the Hispanic 75-82 graduates were in engineering or the natural sciences, 30% in the social sciences, and 11% in education.

An alternative view, which avoids the time-lag effect, is provided by looking at proportions within each field. The proportions for each minority group within the doctoral degree fields were approximately the same for

the two baccalaureate groups (the 1975-82 graduates and the larger group included in Coyle's data for the doctorates earned by U.S. citizens in 1986).

Of all the doctoral degrees in education awarded in 1986, 87% were earned by Whites, 8% by Blacks, 3% by Hispanics and 1% by Asians (Coyle, 1987). Among the education degrees earned by the 75-82 graduates, 86% were earned by Whites, 8% by Blacks, 3% by Hispanics, 2% by Asians, and 1% by Indians.

For the Humanities, 93% of the 1986 degrees were earned by Whites, 3% by Blacks, 3% by Hispanics, and 1% by Asians. Among the 75-82 graduates, 93% of the humanities degrees were earned by Whites, 3% by Hispanics, 2% by Blacks and 1% by Asians.

In the social sciences, Whites earned 91% of the doctorates awarded in 1986, Blacks earned 4%, Hispanics earned 3%, and Asians earned 2%. Among the 75-82 graduates, Whites earned 91% of the social science doctorates, Blacks earned 4%, Hispanics earned 3% and Asians earned 2%.

In the natural sciences and engineering, Whites earned 93% of the doctorates awarded in 1986, Asians earned 4%, Hispanics earned 2%, and Blacks earned 1%. Among the 75-82 graduates, Whites earned 92% of the doctorates in the natural sciences and engineering, Asians earned 5%, Blacks earned 1%, and Hispanics earned 1%.

INSTITUTIONAL PRODUCTIVITY FOR TOTAL NUMBERS OF DOCTORATES

Those institutions whose 1975-82 minority graduates had earned 4 or more doctorates through 1986 are identified in Tables 7-12. Table 15 lists the 61 institutions with more than 145 White men graduates, and Table 13 lists the 56 institutions with more than 49 White women graduates who had earned doctorates in any field by 1986 (the top 5% for each of these groups). Table 16 lists the 62 institutions with more than 125 White men graduates, and Table 14 lists the 56 institutions with more than 45 White women graduates who had earned *science* doctorates by 1986. Overall, the institutions included in these lists accounted for about half of the doctorates earned by members of each of the racial/ethnic groups (from 38% for White women and Black men, 41% for Black women, 44% for Hispanic women and White men, 48% for Hispanic men, 57% for Asian women, to 70% for Asian men). Frequency distributions for each of the racial/ethnic groups, for men and for women, are shown in Tables 18-25 (except for American Indians–no institution had more than 2 American Indian graduates between 1975 and 1982 who had earned a doctoral degree by 1986).

Coyle (1985) listed the 30 leading baccalaureate sources of doctorates earned in 1984 for men and for women (all races combined), and the 10 leading baccalaureate sources for Asians, Hispanics and Blacks. While the 1984 minority lists were shorter and were combined for men and for women, it is useful to compare Coyle's lists with those for the leading institutions for the 1975-82 graduates. The two sets of lists are highly similar. Most of the institutions listed as leading baccalaureate sources for the doctorates received in 1984 appear on the lists for the 1975-82 baccalaureate group for Asians and Hispanics. For Hispanic women, the predominant feature continues to be regional, i.e., most of the institutions listed are in Puerto Rico, Texas, New Mexico, California, or Florida. While the majority of the leading institutions for the 75-82 Hispanic men graduates were from these areas, the leading institutions include several institutions from other regions as well. Since approximately 90% of the doctorates earned in 1984 were earned by Whites, the lists for the leading institutions for men and for women earning doctorates in 1984 can be compared to those for Whites among the 1975-82 graduates. All but two of the institutions listed as leading baccalaureate sources for men and/or for women among the 1984 doctorates are included on the lists for the 1975-82 graduates for White men and/or White women.

The leading baccalaureate institutions for the 1984 doctorates earned by Blacks are included on the lists for the 1975-82 Black graduates. However, there is a notable difference between the lists of leading baccalaureate sources for these two groups (the 1975-82 graduates and the larger group included in all those earning doctorates in 1984). While all ten of the institutions on the list of leading sources for doctorates earned by Blacks in 1984 were historically Black institutions, many other institutions had relatively large numbers of Black 1975-82 graduates who received doctorates by 1986, including Michigan, Princeton, Wellesley, Brown, Harvard-Radcliffe, North Carolina, Wayne State University, City College, Massachusetts Institute of Technology, California at Berkeley, and Cornell University. 16 of the 42 institutions identified as leading baccalaureate sources for doctorates earned by Black men are historically Black institutions (Table 11). 15 of the 37 institutions identified as leading baccalaureate sources for doctorates earned by Black women are historically Black institutions (Table 8). Ten of these historically Black institutions appear on lists for both men and women: Howard, Tuskegee, North Carolina A & T, Alabama A & M, North Carolina Central, Morgan State, Fisk, University of the District of Columbia, South Carolina State, and Tennessee State (Spelman and Morehouse are single-sex colleges).

Bond (1972) investigated the geographical, family, and educational origins of Black scholars who had earned doctorates between 1920 and 1955. He estimated that two-thirds of all Black doctorates at that time were graduates of predominantly Black colleges. The leading institutions were

Howard, Fisk, Hampton, Virginia State and Talladega for both men and women; Morehouse, Lincoln (Pa.), and Tuskegee for men; and Spelman for women. Of these, Howard, Morehouse, Spelman, Fisk, Hampton, Virginia State and Tuskegee continue to be leading baccalaureate sources of Black doctorates (among others). Brazziel ranked the baccalaureate sources of 1975-80 Black doctorates (Brazziel, 1983). Of those doctorates, 54.6% were graduates of predominantly Black institutions. The top ten baccalaureate sources included nine Black institutions: Howard, Southern, Florida A&M, Morgan State, Tennessee State, Tuskegee, Hampton, Virginia State, and North Carolina Central. The only predominantly White institution among the top ten was Wayne State University.

The historically Black institutions continue to be a significant source of Black doctorates, accounting for 28% of the doctorates earned by 75-82 Black graduates (Table 17). (The historically Black institutions awarded 35% of the baccalaureate degrees received by Black graduates between 1975-1982).

Thomas (1981) reported that Black college students are more likely to experience academic success at Black colleges. She found these students were more likely to complete their undergraduate degrees in four years than were Black students at predominantly White institutions. The factors leading to higher educational outcomes for Black students at Black colleges can be expected to lead to a higher proportion of these students choosing to pursue doctoral degrees. Tidball (1986) reported a "direct relationship between the number of women faculty and the number of women students proceeding to the doctorate [which] reconfirms the importance of women faculty to women student's outcomes," (p. 619). There seems to be a similar link for Black and other minority students. Brown (1988) reported that 64% of the full-time faculty in the traditionally Black institutions are Black. Fleming (1984) found that "Black men at predominantly White colleges were the students least likely to make gains in intellectual development...but many of the problems faced by Blacks at White campuses did not exist at historically Black colleges."

The institutions with relatively large numbers of graduates earning doctorates can be expected to include universities with very large numbers of graduates, such as Pennsylvania State University (with 35,637 men and 24,807 women graduates between 1975 and 1982) or Michigan State (with 29,753 men and 28,170 women graduates between 1975 and 1982). However, those institutions identified as leading baccalaureate sources for total numbers of doctorates among the 1975-82 graduates include a wide range of sizes. For example, during those eight years, 1059 women and 572 men graduated from Fisk, and 1284 men and 1114 women graduated from Swarthmore, but they also appear along with much larger institutions on the list of institutions with the largest numbers of graduates going on to achieve doctorates.

INSTITUTIONAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE

Within each racial/ethnic group the number of doctorates earned by the graduates of each institution were divided by the number of graduates from that institution for the years 1975-82. Racial/ethnic data were available only for the years 1975-76, 1976-77, 1978-89, and 1980-81--an 8-year-total estimate was computed from these data for each of 3 minority groups for men and for women (no analyses were conducted for Indians since no institution had more than two Indian graduates between 1975-82 who had received a doctorate by 1986).

The ratio between the total number of doctorates earned and the number of baccalaureates received was computed for each of the doctoral fields, for all-fields and for all-sciences.

The institutions were ranked for all-fields and for all-science for each of the racial/ethnic groups. Tables 26-37 list all the institutions whose 1975-82 graduates of any minority group had obtained at least 4 doctorates by 1986 in all-fields or in all-sciences, ranked for productivity. Tables 38-41 list the top 5% of the institutions for White men and White women.

Since complete racial/ethnic data have been available only recently for baccalaureate or doctoral data, previous attempts to compute ratios have been possible only for Black institutions. Bond (1972) ranked the "predominately Negro colleges" on the ratio between doctorates earned 1920-1962 and baccalaureate degrees conferred 1920-1955. The top ten institutions for men were Talladega, Fisk, Morehouse, Lincoln (Mo.), Huston-Tillotson, Hampton, Virginia State, Maryland State, Knoxville, and Paine. The top ten institutions for women were Talladega, Howard, Fisk, Central State, Spelman, Mississippi Industrial, Wilberforce, Hampton, Langston, and Shaw.

Brazziel (1983) computed ratios for the Black institutions with more than 24 doctorates earned by their graduates between 1978 and 1980 and the baccalaureates received 1968-1970. The top ten institutions were: Talladega, Morehouse, Spelman, Tougaloo, Clark, Fisk, Dillard, Xavier, Virginia State, and Morgan State. Of these ten, five are included among the most productive institutions identified in this report for doctorates earned by 1975-82 Black graduates: Morehouse, Spelman, Fisk, Virginia State, and Morgan State. The 1975-82 graduates of the other five institutions received fewer than 4 doctorates by 1986 and therefore are not included here.

Of the 140 institutions listed for one or more of the racial/ethnic groups for men, 36 were listed only for White men. Eleven institutions were listed among the most highly productive for all three groups of minority

men: Asians, Blacks and Hispanics--California at Berkeley, City College, Columbia University, Cornell University, Harvard, Massachusetts Institute of Technology, Michigan, Princeton, Rutgers, Yale, and Wisconsin. There were an additional fifteen institutions which were listed for men among the most highly productive for two of the minority groups: for Blacks and Hispanics--University of Florida, University of Miami; for Blacks and Asians--Maryland, Oberlin, Purdue, SUNY at Buffalo; for Hispanics and Asians--University of California at San Diego, at Los Angeles, and at Santa Cruz, California State University at Long Beach, University of Chicago, Kansas State, University of Southern California, Stanford and Washington University (St. Louis).

Of the 104 institutions listed for one or more of the racial/ethnic groups for women, 43 were listed only for White women. There were only two institutions listed among the most highly productive for Asians, Blacks and Hispanics: University of California at Berkeley and at Los Angeles. There were no others ranked highly both for Black and Hispanic women. Six additional institutions were ranked highly both for Black and for Asian women: Harvard-Radcliffe, Maryland, Michigan, Princeton, Wellesley, and Yale. There were four additional institutions ranked highly both for Hispanic and for Asian women: Barnard, University of California at San Diego, Rutgers, and Stanford.

The institutions which were ranked highly for at least two minority groups for both men and for women were: University of California at Berkeley, at Los Angeles, and at San Diego, Harvard-Radcliffe, Maryland, Michigan, Princeton, Rutgers, Stanford, and Yale (Barnard and Wellesley are women's colleges).

CONCLUSION

The numbers of American Indian, Black, and Hispanic graduates who earn doctorates continue to be small during the decade examined in this study. Asians are more strongly represented, especially in the natural sciences and engineering.

It is important to recognize the undergraduate origins of the minority students who do enter and complete doctoral programs. The historically Black institutions continue to be significant sources of future doctorates earned by Blacks. Some of the most selective predominantly White colleges and universities, both public and private, now are also significant sources of Black undergraduates who go on to earn doctorates. For Hispanics, the regional concentration of the leading institutions is marked, but is becoming less so, especially for men.

It is also interesting to note that several formerly all male institutions have become significant undergraduate sources of *women* who eventually earn doctorates. This is particularly true for White women, but holds true for Black and Asian women as well.

The most disturbing trend to be noted is certainly the declining numbers of Blacks, particularly Black men, who are earning doctorates. This is true both in total numbers, and as a proportion of the total doctoral degrees being earned. A similar trend is evident also at the undergraduate level. The total number of minority students earning baccalaureates was higher in 1984-85 than 1975-76 while the total number of Whites earning baccalaureate degrees was lower in 1984-85 than in 1975-76 (although the number for White women increased steadily throughout the decade). The numbers of baccalaureates awarded to Indians and to Asians were higher in 1984-85 than in 1975-76, while the numbers awarded to Blacks and to Hispanics were lower in 1984-85 than in 1975-76. Enrollment data indicate an increase in the number of Indian, Asian, Hispanic and White students enrolled in four-year undergraduate institutions between 1976 and 1986. The number of Black students enrolled increased between 1976 and 1980 and then declined between 1980 and 1986. Brown (1987) reported a decline between 1976 and 1984 in the number of Black students and the number of White students enrolled full-time in graduate school, and an increase in the number of Hispanic students (she did not report the numbers for Asians). She concluded that "as the level of education increases the fraction of White students enrolled increases. In contrast, the representation of Black, Hispanic, and American Indian students dropped considerably by the time they enrolled in graduate and professional schools." Table 42 indicates the percentage for each racial/ethnic group at each of four stages in the higher education "pipeline": 1986 doctorates, 1986 graduate enrollment, 1984-85 baccalaureates, and 1986 undergraduate enrollment. These data indicate a slight drop for the Indian students and a slight increase for White students. While there is a substantial decline for Hispanic students, the greatest decline over the "pipeline" occurs for the Black students. The greatest increase occurs for the Asian students.

As attempts are made to increase the participation of more students of all racial/ethnic groups at each educational level, it seems imperative to focus special attention on the Black and Hispanic students.

REFERENCES

Bond, H. M. *Black American Scholars: A Study of Their Beginnings.* Balamp, Detroit, 1972.

Brazziel, W. F. Baccalaureate College of Origin of Black Doctorate Recipients. *The Journal of Negro Education*, 1983, 52 No. 2, 102-109.

Brown, S. V. *Increasing Minority Faculty: An Elusive Goal.* Educational Testing Service, 1988.

Brown, S. V. *Minorities in the Graduate Education Pipeline.* Educational Testing Service, 1987.

Chronicle of Higher Education. Almanac, September 1, 1988.

Chronicle of Higher Education. 1986 Minority Enrollment at 3200 Institutions of Higher Education. July 6, 1988, p. A20.

Commission on Minority Participation in Education and American Life. *One Third of a Nation. American Council on Education,* 1988.

Coyle, S. L. *Summary Report 1984. Doctorate Recipients from United States Universities.* National Academy Press, Washington, D.C., 1986.

Coyle, S. L. *Summary Report 1985. Doctorate Recipients from United States Universities.* National Academy Press, Washington, D.C., 1986.

Coyle, S. L. *Summary Report 1986. Doctorate Recipients from United States Universities.* National Academy Press, Washington, D.C., 1987.

Fleming, J. *Blacks in College,* 1984 (reported in *Chronicle of Higher Education,* December 9, 1987, p. A27)

Hill, S. T., Kroe, P. E., & Whitener, S. D. *Profile of Education Doctorates: 1976-1986.* Center for Education Statistics, Washington, D.C., 1987.

Tidball, M. E. Baccalaureate Origins of Recent Natural Science Doctorates. *Journal of Higher Education,* 1986, Vol. 57, No. 6, November/December.

Thomas, G. E. College Characteristics and Black Students' Four-year College Graduation. *Journal of Negro Education,* Vol. 50, No. 3.

TABLE 1

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM U.S. INSTITUTIONS BY RACE AND FIELD
U.S. CITIZENS & PERMANENT RESIDENTS: MEN AND WOMEN

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	154	14	26	111	10	24	44	33	3	0
ASIAN	1530	43	54	1398	317	415	470	196	35	0
BLACK	1281	78	289	847	71	104	217	455	66	1
HISPANIC	1067	130	118	794	78	183	208	325	25	0
TOTAL MINORITY	4032	265	487	3150	476	726	939	1009	129	1
WHITE	52033	4153	3193	43090	4282	12930	14996	10882	1571	26
TOTAL	56065	4418	3680	46240	4758	13656	15935	11891	1700	27

TABLE 2

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM FOREIGN INSTITUTIONS BY RACE AND FIELD
U.S. CITIZENS & PERMANENT RESIDENTS: MEN AND WOMEN

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	1	0	0	1	0	1	0	0	0	0
ASIAN	939	24	29	826	393	213	148	72	60	0
BLACK	65	8	15	41	3	11	13	14	1	0
HISPANIC	111	13	8	86	19	25	19	23	4	0
TOTAL MINORITY	1116	45	52	954	415	250	180	109	65	0
WHITE	1448	149	80	1154	321	316	230	287	65	0
TOTAL	2564	194	132	2108	736	566	410	396	130	0

TABLE 3

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE
RECIPIENTS FROM U.S. INSTITUTIONS BY RACE AND FIELD
U.S. CITIZENS & PERMANENT RESIDENTS: WOMEN

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	55	3	15	36	1	2	21	12	1	0
ASIAN	455	24	29	393	36	102	174	81	9	0
BLACK	552	38	152	333	7	18	71	237	29	0
HISPANIC	410	54	71	275	9	47	83	136	10	0
TOTAL MINORITY	1472	119	267	1037	53	169	349	466	49	0
WHITE	14699	1623	1583	10960	343	1847	4279	4491	525	8
TOTAL	16171	1742	1850	11997	396	2016	4628	4957	574	8

TABLE 4

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE
RECIPIENTS FROM FOREIGN INSTITUTIONS BY RACE AND FIELD
U.S. CITIZENS & PERMANENT RESIDENTS: WOMEN

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	1	0	0	1	0	1	0	0	0	0
ASIAN	217	13	14	177	13	48	82	34	13	0
BLACK	12	1	3	8	1	2	4	1	0	0
HISPANIC	31	5	3	21	0	3	7	11	2	0
TOTAL MINORITY	261	19	20	207	14	54	93	46	15	0
WHITE	304	53	28	212	19	53	70	70	11	0
TOTAL	565	72	48	419	33	107	163	116	26	0

TABLE 5

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE
RECIPIENTS FROM U.S. INSTITUTIONS BY RACE AND FIELD.
U.S. CITIZENS & PERMANENT RESIDENTS: MEN

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	99	11	11	75	9	22	23	21	2	0
ASIAN	1075	19	25	1005	281	313	296	115	26	0
BLACK	729	40	137	514	64	86	146	218	37	1
HISPANIC	657	76	47	519	69	136	125	189	15	0
TOTAL MINORITY	2560	146	220	2113	423	557	590	543	80	1
WHITE	37334	2530	1610	32130	3939	11083	10717	6391	1046	18
TOTAL	39894	2676	1830	34243	4362	11640	11307	6934	1126	19

TABLE 6

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE
RECIPIENTS FROM FOREIGN INSTITUTIONS BY RACE AND FIELD
U.S. CITIZENS & PERMANENT RESIDENTS: MEN

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	0	0	0	0	0	0	0	0	0	0
ASIAN	722	11	15	649	380	165	66	38	47	0
BLACK	53	7	12	33	2	9	9	13	1	0
HISPANIC	80	8	5	65	19	22	12	12	2	0
TOTAL MINORITY	855	26	32	747	401	196	87	63	50	0
WHITE	1144	96	52	942	302	263	160	217	54	0
TOTAL	1999	122	84	1689	703	459	247	280	104	0

TABLE 7

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY ASIAN WOMEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	U. OF CALIFORNIA-BERKELEY	31	1	1	29	4	6	14	5
2	U. OF HAWAII AT MANOA	26	1	1	23	1	4	9	9
3	STANFORD U. CA	16	3	1	12	1	0	8	3
4	U. OF CALIFORNIA-LOS ANGELES	15	1	1	13	2	4	4	3
5	U. OF CALIFORNIA-DAVIS	12	0	0	12	0	4	5	3
6	BARNARD C. NY	11	0	1	10	0	2	7	1
7	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	10	0	0	10	4	3	3	0
	YALE U. CT	10	1	0	9	0	2	7	0
9	HARVARD-RADCLIFFE MA	9	1	0	8	0	3	5	0
	U. OF WISCONSIN-MADISON	9	0	0	8	1	4	3	0
11	U. OF CALIFORNIA-IRVINE	8	0	0	8	0	3	4	1
	CORNELL U. NY	8	0	0	8	0	2	5	1
	WELLESLEY C. MA	8	0	1	6	0	0	5	1
14	U. OF ILLINOIS AT URBANA-CHAMPAIGN	7	0	1	6	2	1	3	0
	U. OF MARYLAND COLLEGE PARK	7	0	0	7	2	0	3	2
	U. OF MICHIGAN	7	0	0	7	3	0	3	1
	PRINCETON U. NJ	7	1	0	6	1	2	1	2
	U. OF WASHINGTON	7	0	0	7	0	2	3	2
19	U. OF ILLINOIS AT CHICAGO	6	0	0	6	0	3	3	0

TABLE 7--CONTINUED

TOTALS FOR ASIAN WOMEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
20	U. OF CALIFORNIA-SAN DIEGO	5	0	0	5	0	1	2	2
	U. OF MINNESOTA-TWIN CITIES	5	0	0	5	3	0	1	1
	POMONA C. CA	5	0	0	5	0	1	2	2
	RUTGERS U.-NEW BRUNSWICK NJ	5	1	0	4	1	1	1	1
24	U. OF CALIFORNIA-SANTA BARBARA	4	0	0	4	0	1	2	1
	U. OF DELAWARE	4	0	0	4	0	1	1	2
	IOWA STATE U. OF SCIENCE & TECHNOLOGY	4	0	0	4	0	0	4	0
	JUILLIARD SCHOOL NY	4	3	1	0	0	0	0	0
	MILLS C. CA	4	0	0	4	1	0	2	1
	SMITH C. MA	4	0	0	4	0	1	3	0

TABLE 8

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY BLACK WOMEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	U. OF MICHIGAN	15	1	2	9	0	0	0	9
2	HOWARD U. DC	13	0	0	13	1	2	2	8
	SPELMAN C. GA	13	1	3	8	0	1	1	6
4	MORGAN STATE U. MD	11	0	1	8	0	1	1	6
5	FISK U. TN	9	0	1	7	0	0	1	6
	NORTH CAROLINA A & T STATE U.	9	1	2	6	0	1	2	3
	PRINCETON U. NJ	9	2	0	7	0	0	0	7
8	WELLESLEY C. MA	8	0	1	6	0	0	1	5
9	VIRGINIA STATE U.	7	0	3	4	1	0	0	3
10	BROWN U. RI	6	0	0	5	0	0	1	4
	HARVARD-RADCLIFFE MA	6	0	1	4	0	0	0	4
	U. OF NORTH CAROLINA AT CHAPEL HILL	6	0	0	4	0	0	2	2
	WAYNE STATE U. MI	6	1	4	1	0	0	0	1
14	ALABAMA A & M U.	5	1	3	0	0	0	0	0
	U. OF CALIFORNIA-BERKELEY	5	1	0	4	0	0	1	3
	U. OF CALIFORNIA-LOS ANGELES	5	0	1	4	0	0	0	4
	HAMPTON U. VA	5	0	1	4	0	0	0	4
	JACKSON STATE U. MS	5	0	1	3	0	0	1	2
	NEW YORK U.	5	0	1	4	0	1	1	2
	NORTH CAROLINA CENTRAL U.	5	1	1	3	0	0	1	2

TABLE 8--CONTINUED

TOTALS FOR BLACK WOMEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
[14]	NORTHWESTERN U. IL	5	0	2	3	0	0	1	2
	OBERLIN C. OH	5	1	0	4	0	0	1	3
	TEMPLE U. PA	5	1	2	1	0	1	0	0
24	BOSTON U. MA	4	0	1	3	0	0	1	2
	U. OF DISTRICT OF COLUMBIA	4	0	2	2	0	1	0	1
	U. OF GEORGIA	4	0	2	2	0	0	0	2
	JOHNSON C. SMITH U. NC	4	0	2	2	0	0	2	0
	U. OF MARYLAND COLLEGE PARK	4	0	1	3	0	0	0	3
	MICHIGAN STATE U.	4	0	1	3	0	0	2	1
	U. OF PITTSBURGH PA	4	0	3	1	0	0	0	1
	PURDUE U. IN	4	0	0	4	1	0	0	3
	SOUTH CAROLINA STATE C.	4	0	3	1	0	0	0	1
	U. OF SOUTH CAROLINA	4	0	0	4	0	0	0	4
	TENNESSEE STATE U.	4	0	2	2	0	0	1	1
	TUSKEGEE INSTITUTE AL	4	0	2	2	0	0	2	0
	U. OF VIRGINIA	4	1	0	3	0	0	0	3
	YALE U. CT	4	0	0	4	0	0	0	4

TABLE 9

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY HISPANIC WOMEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	U. OF PUERTO RICO	46	3	13	30	0	17	7	6
2	CUNY QUEENS C. NY	10	3	1	6	0	2	0	4
3	U. OF TEXAS AT AUSTIN	9	0	1	7	0	1	2	4
4	BARNARD C. NY	8	1	0	7	1	1	2	3
	FLORIDA INTERNATIONAL U.	8	2	2	4	0	1	0	3
	U. OF NEW MEXICO	8	2	0	6	0	1	1	4
	U. OF PUERTO RICO-MAYAGUEZ	8	0	1	7	1	1	3	2
	RUTGERS U.-NEW BRUNSWICK NJ	8	3	0	5	0	0	2	3
9	U. OF CALIFORNIA-LOS ANGELES	7	1	1	5	0	0	1	4
	U. OF CALIFORNIA-RIVERSIDE	7	2	0	5	0	2	1	2
	CALIFORNIA STATE U.-FULLERTON	7	3	0	4	0	1	0	3
	U. OF MIAMI FL	7	1	0	6	0	1	1	4
13	U. OF TEXAS AT EL PASO	6	0	2	4	0	0	3	1
14	U. OF CALIFORNIA-BERKELEY	5	0	0	5	1	0	2	2
	U. OF CALIFORNIA-SAN DIEGO	5	2	0	3	0	1	2	0
	CUNY CITY C. NY	5	0	1	4	0	1	0	3
	NEW MEXICO STATE U.	5	0	2	3	0	0	1	2
18	U. OF ARIZONA	4	1	0	3	0	0	2	1
	CALIFORNIA STATE U.-LONG BEACH	4	0	1	3	0	0	0	3
	U. OF SOUTHERN CALIFORNIA	4	1	0	2	0	0	2	0
	STANFORD U. CA	4	1	0	3	0	0	0	3
	SUNY U. AT ALBANY	4	1	1	1	0	0	0	1

TABLE 10

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY ASIAN MEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	U. OF CALIFORNIA-BERKELEY	81	1	1	78	21	21	30	6
2	U. OF CALIFORNIA-LOS ANGELES	60	0	0	60	13	21	18	8
3	U. OF HAWAII AT MANOA	46	3	1	40	10	6	15	9
4	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	41	0	0	40	21	15	4	0
5	CALIFORNIA INSTITUTE OF TECHNOLOGY	31	0	0	30	13	14	3	0
6	U. OF CALIFORNIA-DAVIS	28	0	1	27	6	5	14	2
7	STANFORD U. CA	22	0	1	21	5	4	9	3
8	CORNELL U. NY	19	0	0	19	6	3	8	2
	HARVARD-RADCLIFFE MA	19	2	0	17	5	5	3	4
10	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	17	1	1	14	5	3	5	1
	U. OF MICHIGAN	17	0	0	17	3	9	4	1
12	U. OF ILLINOIS AT URBANA-CHAMPAIGN	16	0	0	16	6	6	2	2
	PRINCETON U. NJ	16	1	0	14	5	8	0	1
14	U. OF WASHINGTON	14	0	0	13	3	5	2	3
	YALE U. CT	14	1	0	13	1	4	5	3
16	JOHNS HOPKINS U. MD	13	0	0	13	2	1	9	1
17	U. OF CALIFORNIA-SANTA BARBARA	12	0	1	11	0	3	3	5

TABLE 10--CONTINUED

TOTALS FOR ASIAN MEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
18	U. OF CALIFORNIA-IRVINE	11	0	1	10	3	4	3	0
	U. OF MARYLAND COLLEGE PARK	11	0	0	11	4	3	3	1
	U. OF MINNESOTA-TWIN CITIES	11	0	0	11	6	3	2	0
	RUTGERS U.-NEW BRUNSWICK NJ	11	0	0	11	2	3	5	1
22	U. OF CALIFORNIA-SAN DIEGO	10	1	0	9	0	4	3	2
	NORTHWESTERN U. IL	10	1	0	9	3	2	3	1
24	U. OF SOUTHERN CALIFORNIA	9	0	1	8	2	2	2	2
	SUNY U. AT BUFFALO	9	0	0	8	5	1	2	0
	SUNY U. AT STONY BROOK	9	0	0	9	2	5	2	0
27	BROWN U. RI	8	0	0	8	2	3	3	0
	CALIFORNIA STATE U.-LONG BEACH	8	0	0	7	1	2	3	1
	HARVEY MUDD C. CA	8	0	0	8	3	5	0	0
	U. OF PENNSYLVANIA	8	0	0	8	1	2	4	1
31	U. OF CHICAGO IL	7	0	0	7	0	6	0	1
	CUNY CITY C. NY	7	0	0	7	2	2	2	1
	OREGON STATE U.	7	0	0	7	1	2	3	1
	TEXAS A. & M. U.	7	0	0	7	4	0	3	0
	VIRGINIA POLYTECHNIC INSTITUTE	7	0	0	7	7	0	0	0
	U. OF WISCONSIN-MADISON	7	0	0	7	3	1	3	0
37	ILLINOIS INSTITUTE OF TECHNOLOGY	6	0	0	6	3	3	0	0
	U. OF ILLINOIS AT CHICAGO	6	0	0	6	4	1	1	0
	IOWA STATE U. OF SCIENCE & TECHNOLOGY	6	0	0	6	6	0	0	0

TABLE 10--CONTINUED

TOTALS FOR ASIAN MEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
[37]	RICE U. TX	6	0	0	6	3	0	2	1
	SAN DIEGO STATE U. CA	6	0	0	4	0	1	0	3
	SWARTHMORE C. PA	6	1	0	4	0	0	2	2
43	COOPER UNION NY	5	0	0	5	3	2	0	0
	GEORGE WASHINGTON U. DC	5	0	1	4	1	1	1	1
	U. OF HOUSTON TX	5	1	0	4	2	1	0	1
	LOUISIANA STATE U. & A & M	5	0	1	4	2	1	0	1
	U. OF NORTH CAROLINA AT CHAPEL HILL	5	0	0	5	0	3	2	0
	OBERLIN C. OH	5	0	0	4	0	3	1	0
	POMONA C. CA	5	0	0	5	0	1	3	1
	WASHINGTON U. MO	5	0	0	5	0	1	4	0
51	U. OF CALIFORNIA-SANTA CRUZ	4	0	1	3	0	0	2	1
	CASE WESTERN RESERVE U. OH	4	0	0	4	3	1	0	0
	U. OF COLORADO AT BOULDER	4	0	0	4	1	2	1	0
	ILLINOIS STATE U.	4	0	1	2	1	1	0	0
	KANSAS STATE U.	4	0	0	4	2	0	2	0
	NORTHEASTERN U. MA	4	0	0	4	2	1	1	0
	POLYTECHNIC INSTITUTE OF NEW YORK	4	0	0	4	2	2	0	0
	PURDUE U. IN	4	0	0	4	1	3	0	0
	RENSSELAER POLYTECHNIC INSTITUTE NY	4	0	0	4	3	1	0	0
	SAN JOSE STATE U. CA	4	0	0	4	2	1	0	1
	SUNY U. AT ALBANY	4	0	1	3	1	0	2	0

TABLE 11

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY BLACK MEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	HOWARD U. DC	23	1	1	20	5	4	4	7
2	MOREHOUSE C. GA	17	3	3	9	0	3	0	6
	TUSKEGEE INSTITUTE AL	17	0	1	16	1	0	15	0
4	HARVARD-RADCLIFFE MA	14	3	0	11	2	0	0	9
5	CUNY CITY C. NY	12	1	2	9	1	2	2	4
6	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	10	0	0	10	6	4	0	0
7	NORTH CAROLINA A & T STATE U.	9	0	3	6	1	1	2	2
8	U. OF CALIFORNIA-BERKELEY	7	0	0	7	1	3	1	2
	CORNELL U. NY	7	0	0	7	4	0	2	1
	NORTH CAROLINA CENTRAL U.	7	0	1	5	0	0	2	3
	SOUTHERN U. & A & M LA	7	0	1	6	0	1	5	0
12	U. OF MARYLAND COLLEGE PARK	6	0	2	4	1	0	1	2
	NEW YORK U.	6	0	1	5	2	1	1	1
	PRINCETON U. NJ	6	0	0	6	1	1	1	3
	TENNESSEE STATE U.	6	1	3	1	1	0	0	0
	WAYNE STATE U. MI	6	0	2	3	1	0	0	2
	U. OF WISCONSIN-MADISON	6	0	0	5	1	0	3	1
18	ALABAMA A & M U.	5	0	1	3	0	0	1	2
	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	5	0	1	4	0	2	2	0
	FISK U. TN	5	1	0	4	0	1	2	1
	FORT VALLEY STATE C. GA	5	1	0	4	0	0	3	1

TABLE 11--CONTINUED

TOTALS FOR BLACK MEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
[18]	U. OF MIAMI FL	5	0	0	4	1	1	0	2
	U. OF MICHIGAN	5	0	0	5	2	2	0	1
	NORTH CAROLINA STATE U.-RALEIGH	5	0	0	5	3	2	0	0
	OAKWOOD C. AL	5	1	1	3	0	0	0	3
	OBERLIN C. OH	5	2	1	2	0	1	0	1
	OHIO STATE U.	5	0	1	4	0	1	1	2
	SOUTH CAROLINA STATE C.	5	1	1	2	0	1	1	0
29	CUNY HUNTER C.	4	0	1	3	1	1	0	1
	U. OF DISTRICT OF COLUMBIA	4	0	1	3	1	0	0	2
	U. OF FLORIDA	4	0	0	4	0	0	2	2
	FLORIDA AGRICULTURAL & MECHANICAL U.	4	0	4	0	0	0	0	0
	U. OF MASSACHUSETTS AT AMHERST	4	0	2	2	1	0	0	1
	MORGAN STATE U. MD	4	1	0	3	0	1	1	1
	U. OF NORTHERN COLORADO	4	0	4	0	0	0	0	0
	PURDUE U. IN	4	0	0	4	1	0	2	1
	RUTGERS U.-NEW BRUNSWICK NJ	4	0	1	3	0	0	1	2
	U. OF SOUTH CAROLINA	4	0	0	3	1	0	1	1
	SOUTHERN ILLINOIS U. AT CARBONDALE	4	0	1	3	0	1	2	0
	SUNY U. AT BUFFALO	4	0	1	2	0	1	0	1
	TEXAS SOUTHERN U.	4	0	2	2	0	0	2	0
	YALE U. CT	4	1	0	3	0	1	0	2

TABLE 12

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY HISPANIC MEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	U. OF PUERTO RICO	47	5	3	37	6	8	12	11
2	U. OF PUERTO RICO-MAYAGUEZ	28	1	1	25	17	4	4	0
3	U. OF NEW MEXICO	13	3	1	9	2	3	0	4
4	U. OF TEXAS AT EL PASO	12	0	1	11	2	1	1	7
5	U. OF CALIFORNIA-BERKELEY	11	3	0	8	0	4	2	2
	CUNY CITY C. NY	11	2	0	9	3	1	0	5
	U. OF FLORIDA	11	1	1	9	3	2	1	3
	U. OF TEXAS AT AUSTIN	11	1	1	9	2	3	2	2
9	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	10	0	0	10	2	7	1	0
	U. OF WISCONSIN-MADISON	10	0	1	9	1	2	4	2
11	U. OF MIAMI FL	9	0	0	9	1	4	3	1
12	U. OF CALIFORNIA-SAN DIEGO	8	3	0	5	0	0	2	3
	FLORIDA INTERNATIONAL U.	8	2	0	6	0	0	0	6
	NEW MEXICO STATE U.	8	0	0	8	0	1	5	2
	YALE U. CT	8	5	0	3	1	2	0	0
16	U. OF CALIFORNIA-LOS ANGELES	7	0	0	7	0	3	3	1
	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	7	2	0	5	0	1	2	2

TABLE 12--CONTINUED

TOTALS FOR HISPANIC MEN

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
18	U. OF CALIFORNIA-RIVERSIDE	6	0	1	5	0	1	2	2
	CORNELL U. NY	6	1	0	5	1	0	3	1
	PRINCETON U. NJ	6	1	0	5	1	2	0	2
	RUTGERS U.-NEW BRUNSWICK NJ	6	0	1	5	1	1	1	2
	STANFORD U. CA	6	0	0	6	2	2	0	2
23	U. OF CALIFORNIA-SANTA CRUZ	5	0	0	5	0	1	2	2
	HARVARD-RADCLIFFE MA	5	1	0	4	0	0	1	3
	U. OF SOUTHERN CALIFORNIA	5	0	0	4	0	1	1	2
26	U. OF ARIZONA	4	1	0	3	0	0	3	0
	CALIFORNIA STATE U.-LONG BEACH	4	1	1	2	0	0	0	2
	U. OF CHICAGO IL	4	1	0	3	0	1	2	0
	CUNY QUEENS C. NY	4	2	1	1	0	1	0	0
	KANSAS STATE U.	4	0	0	4	2	0	2	0
	U. OF MICHIGAN	4	1	0	3	0	1	0	2
	NEW MEXICO INSTITUTE OF MINING & TECH.	4	0	0	4	0	3	1	0
	U. OF NOTRE DAME IN	4	1	1	2	0	0	1	1
	PAN AMERICAN U. TX	4	0	1	3	0	0	0	3
	U. OF SOUTH FLORIDA	4	0	0	4	0	1	2	1
	U. OF TENNESSEE	4	0	1	3	0	1	0	2
	TEXAS A & I U.	4	0	1	3	0	0	0	3
	WASHINGTON U. MO	4	1	0	3	1	0	0	2

TABLE 13

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY WHITE WOMEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	CORNELL U. NY	254	23	7	215	10	24	118	63
2	U. OF CALIFORNIA-BERKELEY	217	24	6	181	3	19	82	77
3	U. OF MICHIGAN	169	14	7	144	2	18	63	61
4	RUTGERS U.-NEW BRUNSWICK NJ	162	12	9	137	3	17	65	52
5	U. OF CALIFORNIA-LOS ANGELES	156	20	7	122	5	9	38	70
6	PENNSYLVANIA STATE U.	154	5	9	136	7	20	76	33
7	U. OF ILLINOIS AT URBANA-CHAMPAIGN	143	13	14	108	4	10	54	40
8	OHIO STATE U.	136	6	24	95	2	9	41	43
9	BROWN U. RI	127	14	6	105	5	15	29	56
10	HARVARD-RADCLIFFE MA	126	32	2	92	2	25	34	31
	STANFORD U. CA	126	14	1	108	6	26	34	42
12	U. OF PENNSYLVANIA	124	11	9	98	2	6	31	59
13	MICHIGAN STATE U.	120	8	6	99	3	11	56	29
14	YALE U. CT	115	37	3	73	0	11	32	30
15	SMITH C. MA	112	23	3	85	0	18	43	24
	SUNY U. AT BUFFALO	112	11	12	89	1	16	33	39
17	U. OF TEXAS AT AUSTIN	107	4	15	83	1	7	31	44
18	U. OF MINNESOTA-TWIN CITIES	103	10	8	83	7	8	36	32
	U. OF ROCHESTER NY	103	11	4	86	5	16	28	37
20	U. OF CALIFORNIA-DAVIS	100	6	2	92	1	6	62	23
21	WELLESLEY C. MA	99	24	1	73	1	11	27	34

TABLE 13--CONTINUED

TOTALS FOR WHITE WOMEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
22	NORTHWESTERN U. IL	98	19	4	72	7	10	17	38
23	PRINCETON U. NJ	97	27	2	67	4	19	16	28
24	U. OF MARYLAND COLLEGE PARK	96	4	12	78	4	17	32	25
	U. OF WISCONSIN-MADISON	96	10	6	69	3	8	36	22
26	U. OF CALIFORNIA-SAN DIEGO	93	11	0	79	3	20	31	25
27	U. OF CALIFORNIA-SANTA BARBARA	91	12	6	72	2	9	34	27
	PURDUE U. IN	91	1	7	77	5	13	48	11
29	SUNY U. AT STONY BROOK	90	6	4	80	3	10	30	37
30	DUKE U. NC	89	6	5	76	4	11	21	40
	U. OF MASSACHUSETTS AT AMHERST	89	8	14	66	2	10	30	24
32	U. OF CALIFORNIA-SANTA CRUZ	88	11	1	73	2	10	32	29
33	MOUNT HOLYOKE C. MA	86	13	3	68	3	18	29	18
34	U. OF VIRGINIA	85	8	8	67	2	7	24	34
35	U. OF FLORIDA	83	3	11	62	3	10	26	23
36	U. OF DELAWARE	82	9	5	66	2	14	25	25
37	U. OF CONNECTICUT	81	7	8	62	2	11	37	12
	U. OF PITTSBURGH PA	81	6	17	54	5	9	18	22
39	BARNARD C. NY	79	17	3	56	0	5	17	34
40	FLORIDA STATE U.	78	5	16	52	1	7	23	21
41	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	77	0	0	75	22	30	19	4
42	BRANDEIS U. MA	76	14	1	60	0	12	17	31
43	U. OF WASHINGTON	74	11	6	55	2	8	20	25

TABLE 13--CONTINUED

TOTALS FOR WHITE WOMEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
44	INDIANA U.-BLOOMINGTON	72	14	10	46	0	2	28	16
	OBERLIN C. OH	72	23	1	47	0	9	19	19
46	U. OF COLORADO AT BOULDER	70	11	2	56	1	4	26	25
47	SUNY U. AT BINGHAMTON	69	6	3	60	0	6	21	33
48	CUNY BROOKLYN C. NY	68	8	7	52	0	7	17	28
	SUNY U. AT ALBANY	68	7	2	57	0	10	22	25
50	MIAMI U. OH	67	3	13	46	0	6	24	16
51	CUNY QUEENS C. NY	65	14	5	45	0	3	12	30
	C. OF WILLIAM & MARY VA	65	15	1	49	3	12	17	17
53	U. OF CHICAGO IL	63	8	0	54	1	15	28	10
54	SWARTHMORE C. PA	62	14	3	42	1	7	11	23
55	IOWA STATE U. OF SCIENCE & TECHNOLOGY	60	1	1	55	1	6	28	20
	TUFTS U. MA	60	4	5	51	2	8	7	34

TABLE 14

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY WHITE WOMEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	CORNELL U. NY	215	10	24	118	63
2	U. OF CALIFORNIA-BERKELEY	181	3	19	82	77
3	U. OF MICHIGAN	144	2	18	63	61
4	RUTGERS U.-NEW BRUNSWICK NJ	137	3	17	65	52
5	PENNSYLVANIA STATE U.	136	7	20	76	33
6	U. OF CALIFORNIA-LOS ANGELES	122	5	9	38	70
7	U. OF ILLINOIS AT URBANA-CHAMPAIGN	108	4	10	54	40
	STANFORD U. CA	108	6	26	34	42
9	BROWN U. RI	105	5	15	29	56
10	MICHIGAN STATE U.	99	3	11	56	29
11	U. OF PENNSYLVANIA	98	2	6	31	59
12	OHIO STATE U.	95	2	9	41	43
13	U. OF CALIFORNIA-DAVIS	92	1	6	62	23
	HARVARD-RADCLIFFE MA	92	2	25	34	31
15	SUNY U. AT BUFFALO	89	1	16	33	39
16	U. OF ROCHESTER NY	86	5	16	28	37
17	SMITH C. MA	85	0	18	43	24
18	U. OF MINNESOTA-TWIN CITIES	83	7	8	36	32
	U. OF TEXAS AT AUSTIN	83	1	7	31	44
20	SUNY U. AT STONY BROOK	80	3	10	30	37
21	U. OF CALIFORNIA-SAN DIEGO	79	3	20	31	25
22	U. OF MARYLAND COLLEGE PARK	78	4	17	32	25

TABLE 14--CONTINUED

TOTALS FOR WHITE WOMEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
23	PURDUE U. IN	77	5	13	48	11
24	DUKE U. NC	76	4	11	21	40
25	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	75	22	30	19	4
26	U. OF CALIFORNIA-SANTA CRUZ	73	2	10	32	29
	WELLESLEY C. MA	73	1	11	27	34
	YALE U. CT	73	0	11	32	30
29	U. OF CALIFORNIA-SANTA BARBARA	72	2	9	34	27
	NORTHWESTERN U. IL	72	7	10	17	38
31	U. OF WISCONSIN-MADISON	69	3	8	36	22
32	MOUNT HOLYOKE C. MA	68	3	18	29	18
33	PRINCETON U. NJ	67	4	19	16	28
	U. OF VIRGINIA	67	2	7	24	34
35	U. OF DELAWARE	66	2	14	25	25
	U. OF MASSACHUSETTS AT AMHERST	66	2	10	30	24
37	U. OF CONNECTICUT	62	2	11	37	12
	U. OF FLORIDA	62	3	10	26	23
39	BRANDEIS U. MA	60	0	12	17	31
	SUNY U. AT BINGHAMTON	60	0	6	21	33
41	SUNY U. AT ALBANY	57	0	10	22	25
42	BARNARD C. NY	56	0	5	17	34
	U. OF COLORADO AT BOULDER	56	1	4	26	25
44	IOWA STATE U. OF SCIENCE & TECHNOLOGY	55	1	6	28	20
	U. OF WASHINGTON	55	2	8	20	25

TABLE 14--CONTINUED

TOTALS FOR WHITE WOMEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
46	U. OF CHICAGO IL	54	1	15	28	10
	U. OF PITTSBURGH PA	54	5	9	18	22
48	CUNY BROOKLYN C. NY	52	0	7	17	28
	FLORIDA STATE U.	52	1	7	23	21
50	TUFTS U. MA	51	2	8	7	34
51	C. OF WILLIAM & MARY VA	49	3	12	17	17
52	U. OF KANSAS	47	1	10	15	21
	NEW YORK U.	47	0	5	18	24
	OBERLIN C. OH	47	0	9	19	19
55	INDIANA U.-BLOOMINGTON	46	0	2	28	16
	MIAMI U. OH	46	0	6	24	16

TABLE 15

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY WHITE MEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	676	7	0	661	198	332	95	36
2	U. OF CALIFORNIA-BERKELEY	557	42	5	500	69	182	156	93
3	CORNELL U. NY	512	31	3	476	97	125	207	47
4	U. OF ILLINOIS AT URBANA-CHAMPAIGN	493	21	5	451	126	112	159	54
5	HARVARD-RADCLIFFE MA	487	57	2	414	14	184	137	79
6	PENNSYLVANIA STATE U.	465	13	16	427	66	104	210	47
7	U. OF MICHIGAN	443	23	5	406	80	118	139	69
8	U. OF WISCONSIN-MADISON	417	27	9	370	56	98	156	60
9	MICHIGAN STATE U.	378	15	11	340	53	63	165	59
10	PURDUE U. IN	370	0	6	354	116	78	141	19
11	U. OF MINNESOTA-TWIN CITIES	366	24	12	319	52	85	136	46
12	BRIGHAM YOUNG U. UT	362	28	43	274	40	70	103	61
13	U. OF CALIFORNIA-LOS ANGELES	360	29	13	314	33	124	81	76
14	RUTGERS U.-NEW BRUNSWICK NJ	349	18	9	317	32	95	137	53
15	U. OF CALIFORNIA-DAVIS	331	9	4	314	28	62	193	31
16	PRINCETON U. NJ	317	39	3	274	48	144	42	40
17	YALE U. CT	284	51	1	230	14	88	65	63
18	OHIO STATE U.	281	12	13	240	28	62	115	35
19	U. OF WASHINGTON	276	14	11	244	27	82	79	56
20	U. OF TEXAS AT AUSTIN	272	14	11	235	43	74	63	55

TABLE 15--CONTINUED

TOTALS FOR WHITE MEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
21	U. OF CALIFORNIA-SAN DIEGO	267	13	3	248	25	110	80	33
	U. OF MASSACHUSETTS AT AMHERST	267	11	12	238	21	60	108	49
23	STANFORD U. CA	259	18	3	236	37	85	62	52
	SUNY U. AT BUFFALO	259	13	9	230	33	70	68	59
25	BROWN U. RI	253	24	2	221	33	95	50	43
26	U. OF PENNSYLVANIA	250	17	1	225	26	58	83	58
27	U. OF MARYLAND COLLEGE PARK	248	10	4	231	13	76	92	50
28	SUNY U. AT STONY BROOK	245	10	1	233	15	77	79	62
29	CALIFORNIA INSTITUTE OF TECHNOLOGY	242	0	0	242	49	163	25	5
30	U. OF VIRGINIA	234	19	3	206	53	56	49	48
31	U. OF FLORIDA	229	7	11	201	37	55	67	42
32	RENSSELAER POLYTECHNIC INSTITUTE NY	227	0	0	226	84	103	32	7
33	U. OF CALIFORNIA-SANTA BARBARA	222	19	6	196	13	60	84	39
34	IOWA STATE U. OF SCIENCE & TECHNOLOGY	215	8	5	199	40	48	95	16
35	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	214	28	2	178	32	68	37	41
36	VIRGINIA POLYTECHNIC INSTITUTE	213	1	10	199	68	44	79	8
37	U. OF NORTH CAROLINA AT CHAPEL HILL	212	22	16	172	7	72	64	29
38	U. OF ROCHESTER NY	208	21	2	183	22	78	49	34
39	INDIANA U.-BLOOMINGTON	207	20	13	168	2	53	67	46
40	U. OF CHICAGO IL	200	16	3	179	3	89	57	30
	U. OF CONNECTICUT	200	8	5	183	17	56	85	25

TABLE 15--CONTINUED

TOTALS FOR WHITE MEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
42	U. OF COLORADO AT BOULDER	197	9	4	178	25	52	58	43
	U. OF DELAWARE	197	1	3	187	47	39	71	30
44	DUKE U. NC	191	20	4	165	27	48	59	31
45	SUNY U. AT ALBANY	188	9	5	167	3	61	51	52
	TEXAS A. & M. U.	188	0	8	178	36	37	96	9
47	U. OF NOTRE DAME IN	185	12	2	165	33	48	53	31
48	U. OF MISSOURI-COLUMBIA	181	5	11	164	24	35	72	33
49	U. OF CALIFORNIA-IRVINE	177	8	1	168	5	61	73	29
50	U. OF CALIFORNIA-SANTA CRUZ	171	17	2	150	2	48	52	48
51	NORTHWESTERN U. IL	170	16	1	145	36	39	40	30
52	COLORADO STATE U.	166	5	7	150	10	30	95	15
53	JOHNS HOPKINS U. MD	164	5	1	157	20	50	68	19
54	U. OF KANSAS	158	17	6	127	12	34	51	30
55	DARTMOUTH C. NH	156	21	4	128	7	62	37	22
56	RICE U. TX	154	11	2	140	30	75	26	9
57	U. OF UTAH	153	10	11	127	38	36	27	26
58	U. OF CINCINNATI OH	151	11	3	133	33	43	34	23
	NORTH CAROLINA STATE U.-RALEIGH	151	1	2	145	38	54	51	2
60	U. OF GEORGIA	147	6	9	127	4	21	79	23
61	OBERLIN C. OH	146	31	3	109	3	43	29	34

TABLE 16

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
TOTAL NUMBER EARNED BY WHITE MEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	661	198	332	95	36
2	U. OF CALIFORNIA-BERKELEY	500	69	182	156	93
3	CORNELL U. NY	476	97	125	207	47
4	U. OF ILLINOIS AT URBANA-CHAMPAIGN	451	126	112	159	54
5	PENNSYLVANIA STATE U.	427	66	104	210	47
6	HARVARD-RADCLIFFE MA	414	14	184	137	79
7	U. OF MICHIGAN	406	80	118	139	69
8	U. OF WISCONSIN-MADISON	370	56	98	156	60
9	PURDUE U. IN	354	116	78	141	19
10	MICHIGAN STATE U.	340	53	63	165	59
11	U. OF MINNESOTA-TWIN CITIES	319	52	85	136	46
12	RUTGERS U.-NEW BRUNSWICK NJ	317	32	95	137	53
13	U. OF CALIFORNIA-DAVIS	314	28	62	193	31
	U. OF CALIFORNIA-LOS ANGELES	314	33	124	81	76
15	BRIGHAM YOUNG U. UT	274	40	70	103	61
	PRINCETON U. NJ	274	48	144	42	40
17	U. OF CALIFORNIA-SAN DIEGO	248	25	110	80	33
18	U. OF WASHINGTON	244	27	82	79	56
19	CALIFORNIA INSTITUTE OF TECHNOLOGY	242	49	163	25	5
20	OHIO STATE U.	240	28	62	115	35

TABLE 16--CONTINUED

TOTALS FOR WHITE MEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
21	U. OF MASSACHUSETTS AT AMHERST	238	21	60	108	49
22	STANFORD U. CA	236	37	85	62	52
23	U. OF TEXAS AT AUSTIN	235	43	74	63	55
24	SUNY U. AT STONY BROOK	233	15	77	79	62
25	U. OF MARYLAND COLLEGE PARK	231	13	76	92	50
26	SUNY U. AT BUFFALO	230	33	70	68	59
	YALE U. CT	230	14	88	65	63
28	RENSSELAER POLYTECHNIC INSTITUTE NY	226	84	103	32	7
29	U. OF PENNSYLVANIA	225	26	58	83	58
30	BROWN U. RI	221	33	95	50	43
31	U. OF VIRGINIA	206	53	56	49	48
32	U. OF FLORIDA	201	37	55	67	42
33	IOWA STATE U. OF SCIENCE & TECHNOLOGY	199	40	48	95	16
	VIRGINIA POLYTECHNIC INSTITUTE	199	68	44	79	8
35	U. OF CALIFORNIA-SANTA BARBARA	196	13	60	84	39
36	U. OF DELAWARE	187	47	39	71	30
37	U. OF CONNECTICUT	183	17	56	85	25
	U. OF ROCHESTER NY	183	22	78	49	34
39	U. OF CHICAGO IL	179	3	89	57	30

TABLE 16--CONTINUED

TOTALS FOR WHITE MEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
40	U. OF COLORADO AT BOULDER	178	25	52	58	43
	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	178	32	68	37	41
	TEXAS A. & M. U.	178	36	37	96	9
43	U. OF NORTH CAROLINA AT CHAPEL HILL	172	7	72	64	29
44	U. OF CALIFORNIA-IRVINE	168	5	61	73	29
	INDIANA U.-BLOOMINGTON	168	2	53	67	46
46	SUNY U. AT ALBANY	167	3	61	51	52
47	DUKE U. NC	165	27	48	59	31
	U. OF NOTRE DAME IN	165	33	48	53	31
49	U. OF MISSOURI-COLUMBIA	164	24	35	72	33
50	JOHNS HOPKINS U. MD	157	20	50	68	19
51	U. OF CALIFORNIA-SANTA CRUZ	150	2	48	52	48
	COLORADO STATE U.	150	10	30	95	15
53	NORTH CAROLINA STATE U.-RALEIGH	145	38	54	51	2
	NORTHWESTERN U. IL	145	36	39	40	30
55	RICE U. TX	140	30	75	26	9
56	U. OF CINCINNATI OH	133	33	43	34	23
57	U. OF ARIZONA	131	11	57	42	21
	CASE WESTERN RESERVE U. OH	131	37	62	21	11
59	DARTMOUTH C. NH	128	7	62	37	22
60	U. OF GEORGIA	127	4	21	79	23
	U. OF KANSAS	127	12	34	51	30
	U. OF UTAH	127	38	36	27	26

TABLE 17

TOTAL 1975-86 DOCTORATES BY SEX AND FIELD EARNED
BY 1975-82 BLACK GRADUATES OF U.S. INSTITUTIONS
(SUBTOTALS FOR HISTORICALLY BLACK AND FOR OTHER INSTITUTIONS)

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
BLACK MEN	727	40	135	514	64	86	146	218	37	1
BLACK INSTITUTIONS	200	17	39	135	10	20	56	49	9	0
OTHER INSTITUTIONS	527	23	96	379	54	66	90	169	28	1
BLACK WOMEN	551	38	152	333	7	18	71	237	28	0
BLACK INSTITUTIONS	160	5	43	105	3	7	31	64	7	0
OTHER INSTITUTIONS	391	33	109	228	4	11	40	173	21	0
TOTAL	1278	78	287	847	71	104	217	455	65	1
BLACK INSTITUTIONS	360	22	82	240	13	27	87	113	16	0
OTHER INSTITUTIONS	918	56	205	607	58	77	130	342	49	1

ESTIMATED BACCALAUREATE DEGREES 1975-82

BLACK MEN	197,348
BLACK INSTITUTIONS	67,431
OTHER INSTITUTIONS	129,917
BLACK WOMEN	276,750
BLACK INSTITUTIONS	100,804
OTHER INSTITUTIONS	175,946
TOTAL	474,098
BLACK INSTITUTIONS	168,235
OTHER INSTITUTIONS	305,863

TABLE 18

FREQUENCY DISTRIBUTION BY FIELD OF 1975-86 DOCTORATES AWARDED
TO 1975-82 BACCALAUREATE RECIPIENTS FROM EACH U.S. INSTITUTION
TOTAL NUMBER EARNED BY ASIAN WOMEN

NUMBER OF DOCTORATES	NUMBER OF INSTITUTIONS (174)							
	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
0	--	153	146	27	151	104	93	118
1-4	151	21	28	125	23	69	72	54
5-9	15	-	-	15	-	1	8	2
10-19	6	-	-	5	-	-	1	-
20-29	1	-	-	2	-	-	-	-
30-39	1	-	-	-	-	-	-	-

TABLE 19

FREQUENCY DISTRIBUTION BY FIELD OF 1975-86 DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM EACH U.S. INSTITUTION TOTAL NUMBER EARNED BY ASIAN MEN

NUMBER OF DOCTORATES	NUMBER OF INSTITUTIONS (280)							
	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
0	--	264	255	18	179	144	154	208
1-4	230	16	25	218	85	122	116	68
5-9	27	-	-	23	11	10	6	4
10-19	16	-	-	14	3	2	3	-
20-29	2	-	-	2	2	2	-	-
30-39	1	-	-	1	-	-	1	-
40-49	2	-	-	2	-	-	-	-
50-59	-	-	-	-	-	-	-	-
60-69	1	-	-	1	-	-	-	-
70-79	-	-	-	1	-	-	-	-
80-89	1	-	-	-	-	-	-	-

TABLE 20

FREQUENCY DISTRIBUTION BY FIELD OF 1975-86 DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM EACH U.S. INSTITUTION TOTAL NUMBER EARNED BY BLACK WOMEN

NUMBER OF DOCTORATES	NUMBER OF INSTITUTIONS (259)							
	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
0	--	223	146	85	252	243	199	130
1-4	236	36	113	165	7	16	60	122
5-9	19	-	-	8	-	-	-	7
10-19	4	-	-	1	-	-	-	-

TABLE 21

FREQUENCY DISTRIBUTION BY FIELD OF 1975-86 DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM EACH U.S. INSTITUTION TOTAL NUMBER EARNED BY BLACK MEN

NUMBER OF DOCTORATES	NUMBER OF INSTITUTIONS (356)							
	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
0	--	322	246	74	309	287	253	195
1-4	328	34	110	266	45	69	101	158
5-9	22	-	-	12	2	-	1	3
10-19	5	-	-	3	-	-	1	-
20-29	1	-	-	1	-	-	-	-

TABLE 22

FREQUENCY DISTRIBUTION BY FIELD OF 1975-86 DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM EACH U.S. INSTITUTION TOTAL NUMBER EARNED BY HISPANIC WOMEN

NUMBER OF DOCTORATES	NUMBER OF INSTITUTIONS (176)							
	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
0	--	137	127	33	167	147	115	88
1-4	159	39	48	132	9	28	60	87
5-9	15	-	-	10	-	-	1	1
10-19	1	-	1	-	-	1	-	-
20-29	-	-	-	-	-	-	-	-
30-39	-	-	-	1	-	-	-	-
40-49	1	-	-	-	-	-	-	-

TABLE 23

FREQUENCY DISTRIBUTION BY FIELD OF 1975-86 DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM EACH U.S. INSTITUTION TOTAL NUMBER EARNED BY HISPANIC MEN

NUMBER OF DOCTORATES	NUMBER OF INSTITUTIONS (271)							
	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
0	--	217	228	45	235	177	193	151
1-4	246	52	43	204	34	92	76	116
5-9	15	2	-	18	1	2	1	3
10-19	8	-	-	2	1	-	1	1
20-29	1	-	-	1	-	-	-	-
30-39	-	-	-	1	-	-	-	-
40-49	1	-	-	-	-	-	-	-

TABLE 24

FREQUENCY DISTRIBUTION BY FIELD OF 1975-86 DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM EACH U.S. INSTITUTION TOTAL NUMBER EARNED BY WHITE WOMEN

NUMBER OF DOCTORATES	NUMBER OF INSTITUTIONS (1094)							
	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
0	--	606	490	136	929	541	384	364
1-4	540	392	508	511	151	439	483	491
5-9	216	60	82	180	12	71	118	116
10-19	154	26	13	122	1	37	58	62
20-29	54	8	1	53	1	5	23	33
30-39	42	2	-	22	-	1	17	16
40-49	15	-	-	20	-	-	3	5
50-59	17	-	-	10	-	-	2	3
60-69	10	-	-	10	-	-	3	2
70-79	8	-	-	10	-	-	1	2
80-89	9	-	-	6	-	-	1	-
90-99	9	-	-	5	-	-	-	-
100-149	14	-	-	7	-	-	1	-
150-199	4	-	-	1	-	-	-	-
200-249	1	-	-	1	-	-	-	-
250-299	1	-	-	-	-	-	-	-

TABLE 25

FREQUENCY DISTRIBUTION BY FIELD OF 1975-86 DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM EACH U.S. INSTITUTION
TOTAL NUMBER EARNED BY WHITE MEN

NUMBER OF DOCTORATES	NUMBER OF INSTITUTIONS (1227)							
	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
0	--	601	637	104	797	341	347	397
1-4	448	483	500	421	283	428	482	499
5-9	191	81	62	187	49	187	168	156
10-19	202	42	26	181	39	135	102	88
20-29	108	14	1	92	20	41	35	37
30-39	57	3	-	48	18	28	24	19
40-49	39	1	1	35	8	16	15	13
50-59	30	2	-	25	4	10	13	10
60-69	16	-	-	18	3	12	9	6
70-79	21	-	-	19	-	9	7	1
80-89	18	-	-	13	2	5	5	-
90-99	11	-	-	7	1	3	5	1
100-149	27	-	-	25	2	8	8	1
150-199	18	-	-	20	1	3	5	-
200-249	15	-	-	16	-	-	2	-
250-299	10	-	-	2	-	-	-	-
300-399	8	-	-	7	-	1	-	-
400-499	5	-	-	5	-	-	-	-
500-599	2	-	-	1	-	-	-	-
600-699	1	-	-	1	-	-	-	-

TABLE 26

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY ASIAN WOMEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS		HUMANITIES		EDUCATION		ALL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	35.7	10	0.0	0	0.0	0	35.7	10
2	JUILLIARD SCHOOL NY	16.7	4	12.5	3	4.2	1	0.0	0
3	U. OF DELAWARE	11.1	4	0.0	0	0.0	0	11.1	4
4	IOWA STATE U. OF SCIENCE & TECHNOLOGY	9.1	4	0.0	0	0.0	0	9.1	4
5	HARVARD-RADCLIFFE MA	8.2	9	0.9	1	0.0	0	7.3	8
6	PRINCETON U. NJ	7.0	7	1.0	1	0.0	0	6.0	6
7	U. OF WISCONSIN-MADISON	6.8	9	0.0	0	0.0	0	6.1	8
8	WELLESLEY C. MA	6.0	8	0.0	0	0.7	1	4.5	6
9	YALE U. CT	5.0	10	0.5	1	0.0	0	4.5	9
10	SMITH C. MA	4.9	4	0.0	0	0.0	0	4.9	4
11	BARNARD C. NY	4.6	11	0.0	0	0.4	1	4.2	10
	POMONA C. CA	4.6	5	0.0	0	0.0	0	4.6	5
13	MILLS C. CA	4.3	4	0.0	0	0.0	0	4.3	4
14	STANFORD U. CA	4.0	16	0.8	3	0.3	1	3.0	12
15	U. OF MICHIGAN	3.0	7	0.0	0	0.0	0	3.0	7
16	U. OF CALIFORNIA-SAN DIEGO	2.8	5	0.0	0	0.0	0	2.8	5
17	CORNELL U. NY	2.7	8	0.0	0	0.0	0	2.7	8
18	U. OF MARYLAND COLLEGE PARK	2.5	7	0.0	0	0.0	0	2.5	7
19	U. OF CALIFORNIA-IRVINE	2.3	8	0.0	0	0.0	0	2.3	8
20	U. OF ILLINOIS AT URBANA-CHAMPAIGN	2.1	7	0.0	0	0.3	1	1.8	6

TABLE 26--CONTINUED

RATIOS FOR ASIAN WOMEN: ALL FIELDS

RANK	INSTITUTION	ALL FIELDS		HUMANITIES		EDUCATION		ALL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
21	U. OF ILLINOIS AT CHICAGO	1.9	6	0.0	0	0.0	0	1.9	6
22	U. OF MINNESOTA-TWIN CITIES	1.8	5	0.0	0	0.0	0	1.8	5
23	RUTGERS U.-NEW BRUNSWICK NJ	1.6	5	0.3	1	0.0	0	1.3	4
24	U. OF CALIFORNIA-DAVIS	1.3	12	0.0	0	0.0	0	1.3	12
25	U. OF CALIFORNIA-SANTA BARBARA	1.1	4	0.0	0	0.0	0	1.1	4
26	U. OF CALIFORNIA-BERKELEY	1.0	31	0.0	1	0.0	1	0.9	29
27	U. OF CALIFORNIA-LOS ANGELES	0.7	15	0.0	1	0.0	1	0.6	13
28	U. OF WASHINGTON	0.5	7	0.0	0	0.0	0	0.5	7
29	U. OF HAWAII AT MANOA	0.3	26	0.0	1	0.0	1	0.3	23

TABLE 27

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY ASIAN WOMEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	35.7	10	14.3	4	10.7	3	10.7	3	0.0	0
2	U. OF DELAWARE	11.1	4	0.0	0	2.8	1	2.8	1	5.6	2
3	IOWA STATE U. OF SCIENCE & TECHNOLOGY	9.1	4	0.0	0	0.0	0	9.1	4	0.0	0
4	HARVARD-RADCLIFFE MA	7.3	8	0.0	0	2.7	3	4.5	5	0.0	0
5	U. OF WISCONSIN-MADISON	6.1	8	0.8	1	3.0	4	2.3	3	0.0	0
	PRINCETON U. NJ	6.0	6	1.0	1	2.0	2	1.0	1	2.0	2
7	SMITH C. MA	4.9	4	0.0	0	1.2	1	3.7	3	0.0	0
8	POMONA C. CA	4.6	5	0.0	0	0.9	1	1.9	2	1.9	2
9	YALE U. CT	4.5	9	0.0	0	1.0	2	3.5	7	0.0	0
	WELLESLEY C. MA	4.5	6	0.0	0	0.0	0	3.7	5	0.7	1
11	MILLS C. CA	4.3	4	1.1	1	0.0	0	2.1	2	1.1	1
12	BARNARD C. NY	4.2	10	0.0	0	0.8	2	2.9	7	0.4	1
13	STANFORD U. CA	3.0	12	0.3	1	0.0	0	2.0	8	0.8	3
	U. OF MICHIGAN	3.0	7	1.3	3	0.0	0	1.3	3	0.4	1
15	U. OF CALIFORNIA-SAN DIEGO	2.8	5	0.0	0	0.6	1	1.1	2	1.1	2
16	CORNELL U. NY	2.7	8	0.0	0	0.7	2	1.7	5	0.3	1
17	U. OF MARYLAND COLLEGE PARK	2.5	7	0.7	2	0.0	0	1.1	3	0.7	2
18	U. OF CALIFORNIA-IRVINE	2.3	8	0.0	0	0.9	3	1.2	4	0.3	1
19	U. OF ILLINOIS AT CHICAGO	1.9	6	0.0	0	1.0	3	1.0	3	0.0	0

TABLE 27-CONTINUED

RATIOS FOR ASIAN WOMEN:SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
20	U. OF ILLINOIS AT URBANA-CHAMPAIGN	1.8	6	0.6	2	0.3	1	0.9	3	0.0	0
	U. OF MINNESOTA-TWIN CITIES	1.8	5	1.1	3	0.0	0	0.4	1	0.4	1
22	U. OF CALIFORNIA-DAVIS	1.3	12	0.0	0	0.4	4	0.5	5	0.3	3
	RUTGERS U.-NEW BRUNSWICK NJ	1.3	4	0.3	1	0.3	1	0.3	1	0.3	1
24	U. OF CALIFORNIA-SANTA BARBARA	1.1	4	0.0	0	0.3	1	0.5	2	0.3	1
25	U. OF CALIFORNIA-BERKELEY	0.9	29	0.1	4	0.2	6	0.5	14	0.2	5
26	U. OF CALIFORNIA-LOS ANGELES	0.6	13	0.1	2	0.2	4	0.2	4	0.1	3
27	U. OF WASHINGTON	0.5	7	0.0	0	0.2	2	0.2	3	0.2	2
28	U. OF HAWAII AT MANOA	0.3	23	0.0	1	0.1	4	0.1	9	0.1	9

TABLE 28

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY BLACK WOMEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS		HUMANITIES		EDUCATION		ALL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
1	PRINCETON U. NJ	2.9	9	0.6	2	0.0	0	2.3	7
2	WELLESLEY C. MA	2.8	8	0.0	0	0.3	1	2.1	6
	OBERLIN C. OH	2.8	5	0.6	1	0.0	0	2.2	4
4	YALE U. CT	2.1	4	0.0	0	0.0	0	2.1	4
5	BROWN U. RI	1.9	6	0.0	0	0.0	0	1.6	5
6	HARVARD-RADCLIFFE MA	1.7	6	0.0	0	0.3	1	1.2	4
7	U. OF MICHIGAN	1.3	15	0.1	1	0.2	2	0.8	9
8	U. OF VIRGINIA	1.0	4	0.3	1	0.0	0	0.8	3
9	U. OF NORTH CAROLINA AT CHAPEL HILL	0.9	6	0.0	0	0.0	0	0.6	4
	U. OF GEORGIA	0.9	4	0.0	0	0.4	2	0.4	2
	PURDUE U. IN	0.9	4	0.0	0	0.0	0	0.9	4
12	FISK U. TN	0.8	9	0.0	0	0.1	1	0.6	7
	NORTHWESTERN U. IL	0.8	5	0.0	0	0.3	2	0.5	3
	BOSTON U. MA	0.8	4	0.0	0	0.2	1	0.6	3
15	SPELMAN C. GA	0.7	13	0.1	1	0.2	3	0.4	8
	U. OF CALIFORNIA-BERKELEY	0.7	5	0.1	1	0.0	0	0.6	4
17	NEW YORK U.	0.6	5	0.0	0	0.1	1	0.5	4
	U. OF PITTSBURGH PA	0.6	4	0.0	0	0.4	3	0.1	1
19	U. OF CALIFORNIA-LOS ANGELES	0.5	5	0.0	0	0.1	1	0.4	4

TABLE 28-CONTINUED

RATIOS FOR BLACK WOMEN:ALL FIELDS

RANK	INSTITUTION	ALL FIELDS RATIO	ALL FIELDS TOTAL	HUMANITIES RATIO	HUMANITIES TOTAL	EDUCATION RATIO	EDUCATION TOTAL	ALL SCIENCE RATIO	ALL SCIENCE TOTAL
20	HOWARD U. DC	0.4	13	0.0	0	0.0	0	0.4	13
	MORGAN STATE U. MD	0.4	11	0.0	0	0.0	1	0.3	8
	JOHNSON C. SMITH U. NC	0.4	4	0.0	0	0.2	2	0.2	2
	U. OF SOUTH CAROLINA	0.4	4	0.0	0	0.0	0	0.4	4
24	NORTH CAROLINA A & T STATE U.	0.3	9	0.0	1	0.1	2	0.2	6
	ALABAMA A & M U.	0.3	5	0.1	1	0.2	3	0.0	0
	U. OF MARYLAND COLLEGE PARK	0.3	4	0.0	0	0.1	1	0.2	3
27	VIRGINIA STATE U.	0.2	7	0.0	0	0.1	3	0.1	4
	WAYNE STATE U. MI	0.2	6	0.0	1	0.1	4	0.0	1
	HAMPTON U. VA	0.2	5	0.0	0	0.0	1	0.2	4
	JACKSON STATE U. MS	0.2	5	0.0	0	0.0	1	0.1	3
	NORTH CAROLINA CENTRAL U.	0.2	5	0.0	1	0.0	1	0.1	3
	TEMPLE U. PA	0.2	5	0.0	1	0.1	2	0.0	1
	U. OF DISTRICT OF COLUMBIA	0.2	4	0.0	0	0.1	2	0.1	2
	MICHIGAN STATE U.	0.2	4	0.0	0	0.1	1	0.2	3
	SOUTH CAROLINA STATE C.	0.2	4	0.0	0	0.1	3	0.0	1
	TENNESSEE STATE U.	0.2	4	0.0	0	0.1	2	0.1	2
	TUSKEGEE INSTITUTE AL	0.2	4	0.0	0	0.1	2	0.1	2

TABLE 29

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY BLACK WOMEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
1	PRINCETON U. NJ	2.3	7	0.0	0	0.0	0	0.0	0	2.3	7
2	OBERLIN C. OH	2.2	4	0.0	0	0.0	0	0.6	1	1.7	3
3	WELLESLEY C. MA	2.1	6	0.0	0	0.0	0	0.3	1	1.7	5
	YALE U. CT	2.1	4	0.0	0	0.0	0	0.0	0	2.1	4
5	BROWN U. RI	1.6	5	0.0	0	0.0	0	0.3	1	1.3	4
6	HARVARD-RADCLIFFE MA	1.2	4	0.0	0	0.0	0	0.0	0	1.2	4
7	PURDUE U. IN	0.9	4	0.2	1	0.0	0	0.0	0	0.7	3
8	U. OF MICHIGAN	0.8	9	0.0	0	0.0	0	0.0	0	0.8	9
9	FISK U. TN	0.6	7	0.0	0	0.0	0	0.1	1	0.5	6
	U. OF CALIFORNIA-BERKELEY	0.6	4	0.0	0	0.0	0	0.1	1	0.4	3
	U. OF NORTH CAROLINA AT CHAPEL HILL	0.6	4	0.0	0	0.0	0	0.3	2	0.3	2
12	NEW YORK U.	0.5	4	0.0	0	0.1	1	0.1	1	0.2	2
13	HOWARD U. DC	0.4	13	0.0	1	0.1	2	0.1	2	0.2	8
	SPELMAN C. GA	0.4	8	0.0	0	0.1	1	0.1	1	0.3	6
	U. OF CALIFORNIA-LOS ANGELES	0.4	4	0.0	0	0.0	0	0.0	0	0.4	4
	U. OF SOUTH CAROLINA	0.4	4	0.0	0	0.0	0	0.0	0	0.4	4
17	MORGAN STATE U. MD	0.3	8	0.0	0	0.0	1	0.0	1	0.2	6
18	NORTH CAROLINA A & T STATE U.	0.2	6	0.0	0	0.0	1	0.1	2	0.1	3
	HAMPTON U. VA	0.2	4	0.0	0	0.0	0	0.0	0	0.2	4
20	VIRGINIA STATE U.	0.1	4	0.0	1	0.0	0	0.0	0	0.1	3

TABLE 30

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY HISPANIC WOMEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS		HUMANITIES		EDUCATION		ALL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
1	BARNARD C. NY	6.2	8	0.8	1	0.0	0	5.4	7
2	U. OF CALIFORNIA-RIVERSIDE	3.8	7	1.1	2	0.0	0	2.7	5
3	U. OF CALIFORNIA-SAN DIEGO	3.1	5	1.2	2	0.0	0	1.9	3
4	SUNY U. AT ALBANY	3.0	4	0.7	1	0.7	1	0.7	1
5	RUTGERS U.-NEW BRUNSWICK NJ	1.9	8	0.7	3	0.0	0	1.2	5
6	CUNY QUEENS C. NY	1.7	10	0.5	3	0.2	1	1.0	6
7	STANFORD U. CA	1.5	4	0.4	1	0.0	0	1.1	3
8	U. OF CALIFORNIA-BERKELEY	1.4	5	0.0	0	0.0	0	1.4	5
9	U. OF CALIFORNIA-LOS ANGELES	1.1	7	0.2	1	0.2	1	0.8	5
10	U. OF SOUTHERN CALIFORNIA	1.0	4	0.2	1	0.0	0	0.5	2
11	CALIFORNIA STATE U.-FULLERTON	0.9	7	0.4	3	0.0	0	0.5	4
12	U. OF MIAMI FL	0.7	7	0.1	1	0.0	0	0.6	6
13	U. OF NEW MEXICO	0.6	8	0.2	2	0.0	0	0.5	6
	U. OF ARIZONA	0.6	4	0.1	1	0.0	0	0.4	3
15	U. OF TEXAS AT AUSTIN	0.5	9	0.0	0	0.1	1	0.4	7
	CUNY CITY C. NY	0.5	5	0.0	0	0.1	1	0.4	4
	NEW MEXICO STATE U.	0.5	5	0.0	0	0.2	2	0.3	3
	CALIFORNIA STATE U.-LONG BEACH	0.5	4	0.0	0	0.1	1	0.4	3
19	FLORIDA INTERNATIONAL U.	0.4	8	0.1	2	0.1	2	0.2	4
20	U. OF PUERTO RICO	0.3	46	0.0	3	0.1	13	0.2	30
	U. OF TEXAS AT EL PASO	0.3	6	0.0	0	0.1	2	0.2	4
22	U. OF PUERTO RICO-MAYAGUEZ	0.2	8	0.0	0	0.0	1	0.2	7

TABLE 31

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY HISPANIC WOMEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
1	BARNARD C. NY	5.4	7	0.8	1	0.8	1	1.5	2	2.3	3
2	U. OF CALIFORNIA-RIVERSIDE	2.7	5	0.0	0	1.1	2	0.5	1	1.1	2
3	U. OF CALIFORNIA-BERKELEY	1.4	5	0.3	1	0.0	0	0.6	2	0.6	2
4	RUTGERS U.-NEW BRUNSWICK NJ	1.2	5	0.0	0	0.0	0	0.5	2	0.7	3
5	CUNY QUEENS C. NY	1.0	6	0.0	0	0.3	2	0.0	0	0.7	4
6	U. OF CALIFORNIA-LOS ANGELES	0.8	5	0.0	0	0.0	0	0.2	1	0.7	4
7	U. OF MIAMI FL	0.6	6	0.0	0	0.1	1	0.1	1	0.4	4
8	U. OF NEW MEXICO	0.5	6	0.0	0	0.1	1	0.1	1	0.3	4
	CALIFORNIA STATE U.-FULLERTON	0.5	4	0.0	0	0.1	1	0.0	0	0.4	3
10	U. OF TEXAS AT AUSTIN	0.4	7	0.0	0	0.1	1	0.1	2	0.2	4
	CUNY CITY C. NY	0.4	4	0.0	0	0.1	1	0.0	0	0.3	3
12	U. OF PUERTO RICO	0.2	30	0.0	0	0.1	17	0.0	7	0.0	6
	U. OF PUERTO RICO-MAYAGUEZ	0.2	7	0.0	1	0.0	1	0.1	3	0.1	2
	FLORIDA INTERNATIONAL U.	0.2	4	0.0	0	0.1	1	0.0	0	0.1	3
	U. OF TEXAS AT EL PASO	0.2	4	0.0	0	0.0	0	0.2	3	0.1	1

TABLE 32

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY ASIAN MEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS		HUMANITIES		EDUCATION		ALL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
1	SWARTHMORE C. PA	100.0	6	16.7	1	0.0	0	66.7	4
2	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	31.5	41	0.0	0	0.0	0	30.8	40
3	CALIFORNIA INSTITUTE OF TECHNOLOGY	22.1	31	0.0	0	0.0	0	21.4	30
4	RICE U. TX	14.3	6	0.0	0	0.0	0	14.3	6
5	PRINCETON U. NJ	12.7	16	0.8	1	0.0	0	11.1	14
6	LOUISIANA STATE U. & A & M	12.5	5	0.0	0	2.5	1	10.0	4
7	OBERLIN C. OH	10.9	5	0.0	0	0.0	0	8.7	4
8	JOHNS HOPKINS U. MD	10.5	13	0.0	0	0.0	0	10.5	13
	HARVEY MUDD C. CA	10.5	8	0.0	0	0.0	0	10.5	8
10	TEXAS A. & M. U.	9.0	7	0.0	0	0.0	0	9.0	7
11	IOWA STATE U. OF SCIENCE & TECHNOLOGY	8.8	6	0.0	0	0.0	0	8.8	6
12	U. OF NORTH CAROLINA AT CHAPEL HILL	8.6	5	0.0	0	0.0	0	8.6	5
13	KANSAS STATE U.	8.3	4	0.0	0	0.0	0	8.3	4
14	HARVARD-RADCLIFFE MA	8.0	19	0.8	2	0.0	0	7.1	17
15	ILLINOIS STATE U.	7.7	4	0.0	0	1.9	1	3.8	2
	SUNY U. AT ALBANY	7.7	4	0.0	0	1.9	1	5.8	3
17	POMONA C. CA	7.6	5	0.0	0	0.0	0	7.6	5
18	VIRGINIA POLYTECHNIC INSTITUTE	7.3	7	0.0	0	0.0	0	7.3	7
19	NORTHWESTERN U. IL	6.8	10	0.7	1	0.0	0	6.1	9
20	BROWN U. RI	6.5	8	0.0	0	0.0	0	6.5	8

TABLE 32--CONTINUED

RATIOS FOR ASIAN MEN:ALL FIELDS

RANK	INSTITUTION	ALL FIELDS RATIO	ALL FIELDS TOTAL	HUMANITIES RATIO	HUMANITIES TOTAL	EDUCATION RATIO	EDUCATION TOTAL	ALL SCIENCE RATIO	ALL SCIENCE TOTAL
21	YALE U. CT	6.0	14	0.4	1	0.0	0	5.6	13
22	U. OF CHICAGO IL	5.8	7	0.0	0	0.0	0	5.8	7
23	U. OF WISCONSIN-MADISON	5.6	7	0.0	0	0.0	0	5.6	7
24	COOPER UNION NY	5.3	5	0.0	0	0.0	0	5.3	5
25	SUNY U. AT BUFFALO	5.2	9	0.0	0	0.0	0	4.6	8
26	RENSSELAER POLYTECHNIC INSTITUTE NY	5.0	4	0.0	0	0.0	0	5.0	4
27	STANFORD U. CA	4.8	22	0.0	0	0.2	1	4.6	21
	U. OF CALIFORNIA-SAN DIEGO	4.8	10	0.5	1	0.0	0	4.3	9
29	U. OF MICHIGAN	4.5	17	0.0	0	0.0	0	4.5	17
30	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	4.4	17	0.3	1	0.3	1	3.6	14
31	CORNELL U. NY	4.3	19	0.0	0	0.0	0	4.3	19
32	SUNY U. AT STONY BROOK	3.9	9	0.0	0	0.0	0	3.9	9
33	U. OF MARYLAND COLLEGE PARK	3.8	11	0.0	0	0.0	0	3.8	11
	WASHINGTON U. MO	3.8	5	0.0	0	0.0	0	3.8	5
35	U. OF PENNSYLVANIA	3.6	8	0.0	0	0.0	0	3.6	8
	U. OF CALIFORNIA-SANTA CRUZ	3.6	4	0.0	0	0.9	1	2.7	3
37	RUTGERS U.-NEW BRUNSWICK NJ	3.5	11	0.0	0	0.0	0	3.5	11
38	U. OF ILLINOIS AT URBANA-CHAMPAIGN	3.4	16	0.0	0	0.0	0	3.4	16
	CASE WESTERN RESERVE U. OH	3.4	4	0.0	0	0.0	0	3.4	4
40	U. OF CALIFORNIA-LOS ANGELES	3.1	60	0.0	0	0.0	0	3.1	60
41	U. OF CALIFORNIA-SANTA BARBARA	2.9	12	0.0	0	0.2	1	2.7	11
42	U. OF CALIFORNIA-DAVIS	2.8	28	0.0	0	0.1	1	2.7	27
43	PURDUE U. IN	2.4	4	0.0	0	0.0	0	2.4	4

TABLE 32--CONTINUED

RATIOS FOR ASIAN MEN:ALL FIELDS

RANK	INSTITUTION	ALL FIELDS RATIO	ALL FIELDS TOTAL	HUMANITIES RATIO	HUMANITIES TOTAL	EDUCATION RATIO	EDUCATION TOTAL	ALL SCIENCE RATIO	ALL SCIENCE TOTAL
44	U. OF MINNESOTA-TWIN CITIES	2.2	11	0.0	0	0.0	0	2.2	11
45	U. OF CALIFORNIA-BERKELEY	2.1	81	0.0	1	0.0	1	2.0	78
	U. OF CALIFORNIA-IRVINE	2.1	11	0.0	0	0.2	1	1.9	10
	ILLINOIS INSTITUTE OF TECHNOLOGY	2.1	6	0.0	0	0.0	0	2.1	6
48	OREGON STATE U.	2.0	7	0.0	0	0.0	0	2.0	7
49	GEORGE WASHINGTON U. DC	1.9	5	0.0	0	0.4	1	1.5	4
	U. OF HOUSTON TX	1.9	5	0.4	1	0.0	0	1.5	4
51	U. OF ILLINOIS AT CHICAGO	1.5	6	0.0	0	0.0	0	1.5	6
	U. OF COLORADO AT BOULDER	1.5	4	0.0	0	0.0	0	1.5	4
53	NORTHEASTERN U. MA	1.1	4	0.0	0	0.0	0	1.1	4
	POLYTECHNIC INSTITUTE OF NEW YORK	1.1	4	0.0	0	0.0	0	1.1	4
55	U. OF WASHINGTON	1.0	14	0.0	0	0.0	0	0.9	13
56	SAN DIEGO STATE U. CA	0.9	6	0.0	0	0.0	0	0.6	4
57	CUNY CITY C. NY	0.8	7	0.0	0	0.0	0	0.8	7
58	U. OF SOUTHERN CALIFORNIA	0.7	9	0.0	0	0.1	1	0.7	8
59	U. OF HAWAII AT MANOA	0.6	46	0.0	3	0.0	1	0.5	40
	CALIFORNIA STATE U.-LONG BEACH	0.6	8	0.0	0	0.0	0	0.5	7
61	SAN JOSE STATE U. CA	0.3	4	0.0	0	0.0	0	0.3	4

TABLE 33

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY ASIAN MEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
1	SWARTHMORE C. PA	66.7	4	0.0	0	0.0	0	33.3	2	33.3	2
2	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	30.8	40	16.2	21	11.5	15	3.1	4	0.0	0
3	CALIFORNIA INSTITUTE OF TECHNOLOGY	21.4	30	9.3	13	10.0	14	2.1	3	0.0	0
4	RICE U. TX	14.3	6	7.1	3	0.0	0	4.8	2	2.4	1
5	PRINCETON U. NJ	11.1	14	4.0	5	6.3	8	0.0	0	0.8	1
6	JOHNS HOPKINS U. MD	10.5	13	1.6	2	0.8	1	7.3	9	0.8	1
	HARVEY MUDD C. CA	10.5	8	3.9	3	6.6	5	0.0	0	0.0	0
8	LOUISIANA STATE U. & A & M	10.0	4	5.0	2	2.5	1	0.0	0	2.5	1
9	TEXAS A. & M. U.	9.0	7	5.1	4	0.0	0	3.8	3	0.0	0
10	IOWA STATE U. OF SCIENCE & TECHNOLOGY	8.8	6	8.8	6	0.0	0	0.0	0	0.0	0
11	OBERLIN C. OH	8.7	4	0.0	0	6.5	3	2.2	1	0.0	0
12	U. OF NORTH CAROLINA AT CHAPEL HILL	8.6	5	0.0	0	5.2	3	3.4	2	0.0	0
13	KANSAS STATE U.	8.3	4	4.2	2	0.0	0	4.2	2	0.0	0
14	POMONA C. CA	7.6	5	0.0	0	1.5	1	4.5	3	1.5	1
15	VIRGINIA POLYTECHNIC INSTITUTE	7.3	7	7.3	7	0.0	0	0.0	0	0.0	0
16	HARVARD-RADCLIFFE MA	7.1	17	2.1	5	2.1	5	1.3	3	1.7	4
17	BROWN U. RI	6.5	8	1.6	2	2.4	3	2.4	3	0.0	0
18	NORTHWESTERN U. IL	6.1	9	2.0	3	1.4	2	2.0	3	0.7	1
19	U. OF CHICAGO IL	5.8	7	0.0	0	5.0	6	0.0	0	0.8	1

TABLE 33--CONTINUED

RATIOS FOR ASIAN MEN:SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
20	YALE U. CT	5.6	13	0.4	1	1.7	4	2.1	5	1.3	3
	U. OF WISCONSIN-MADISON	5.6	7	2.4	3	0.8	1	2.4	3	0.0	0
22	COOPER UNION NY	5.3	5	3.2	3	2.1	2	0.0	0	0.0	0
23	RENSSELAER POLYTECHNIC INSTITUTE NY	5.0	4	3.8	3	1.2	1	0.0	0	0.0	0
24	STANFORD U. CA	4.6	21	1.1	5	0.9	4	2.0	9	0.7	3
	SUNY U. AT BUFFALO	4.6	8	2.9	5	0.6	1	1.1	2	0.0	0
26	U. OF MICHIGAN	4.5	17	0.8	3	2.4	9	1.0	4	0.3	1
27	CORNELL U. NY	4.3	19	1.3	6	0.7	3	1.8	8	0.4	2
	U. OF CALIFORNIA-SAN DIEGO	4.3	9	0.0	0	1.9	4	1.4	3	1.0	2
29	SUNY U. AT STONY BROOK	3.9	9	0.9	2	2.2	5	0.9	2	0.0	0
30	U. OF MARYLAND COLLEGE PARK	3.8	11	1.4	4	1.0	3	1.0	3	0.3	1
	WASHINGTON U. MO	3.8	5	0.0	0	0.8	1	3.0	4	0.0	0
32	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	3.6	14	1.3	5	0.8	3	1.3	5	0.3	1
	U. OF PENNSYLVANIA	3.6	8	0.5	1	0.9	2	1.8	4	0.5	1
34	RUTGERS U.-NEW BRUNSWICK NJ	3.5	11	0.6	2	0.9	3	1.6	5	0.3	1
35	U. OF ILLINOIS AT URBANA-CHAMPAIGN	3.4	16	1.3	6	1.3	6	0.4	2	0.4	2
	CASE WESTERN RESERVE U. OH	3.4	4	2.6	3	0.9	1	0.0	0	0.0	0
37	U. OF CALIFORNIA-LOS ANGELES	3.1	60	0.7	13	1.1	21	0.9	18	0.4	8
38	U. OF CALIFORNIA-DAVIS	2.7	27	0.6	6	0.5	5	1.4	14	0.2	2
	U. OF CALIFORNIA-SANTA BARBARA	2.7	11	0.0	0	0.7	3	0.7	3	1.2	5
40	PURDUE U. IN	2.4	4	0.6	1	1.8	3	0.0	0	0.0	0
41	U. OF MINNESOTA-TWIN CITIES	2.2	11	1.2	6	0.6	3	0.4	2	0.0	0

TABLE 33--CONTINUED

RATIOS FOR ASIAN MEN:SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
42	ILLINOIS INSTITUTE OF TECHNOLOGY	2.1	6	1.0	3	1.0	3	0.0	0	0.0	0
43	U. OF CALIFORNIA-BERKELEY	2.0	78	0.5	21	0.5	21	0.8	30	0.2	6
	OREGON STATE U.	2.0	7	0.3	1	0.6	2	0.8	3	0.3	1
45	U. OF CALIFORNIA-IRVINE	1.9	10	0.6	3	0.8	4	0.6	3	0.0	0
46	U. OF ILLINOIS AT CHICAGO	1.5	6	1.0	4	0.3	1	0.3	1	0.0	0
	U. OF COLORADO AT BOULDER	1.5	4	0.4	1	0.7	2	0.4	1	0.0	0
	GEORGE WASHINGTON U. DC	1.5	4	0.4	1	0.4	1	0.4	1	0.4	1
	U. OF HOUSTON TX	1.5	4	0.7	2	0.4	1	0.0	0	0.4	1
50	NORTHEASTERN U. MA	1.1	4	0.6	2	0.3	1	0.3	1	0.0	0
	POLYTECHNIC INSTITUTE OF NEW YORK	1.1	4	0.5	2	0.5	2	0.0	0	0.0	0
52	U. OF WASHINGTON	0.9	13	0.2	3	0.3	5	0.1	2	0.2	3
53	CUNY CITY C. NY	0.8	7	0.2	2	0.2	2	0.2	2	0.1	1
54	U. OF SOUTHERN CALIFORNIA	0.7	8	0.2	2	0.2	2	0.2	2	0.2	2
55	SAN DIEGO STATE U. CA	0.6	4	0.0	0	0.1	1	0.0	0	0.5	3
56	U. OF HAWAII AT MANOA	0.5	40	0.1	10	0.1	6	0.2	15	0.1	9
	CALIFORNIA STATE U.-LONG BEACH	0.5	7	0.1	1	0.1	2	0.2	3	0.1	1
58	SAN JOSE STATE U. CA	0.3	4	0.1	2	0.1	1	0.0	0	0.1	1

TABLE 34

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY BLACK MEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS		HUMANITIES		EDUCATION		ALL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5.7	10	0.0	0	0.0	0	5.7	10
2	U. OF WISCONSIN-MADISON	3.1	6	0.0	0	0.0	0	2.6	5
3	HARVARD-RADCLIFFE MA	2.9	14	0.6	3	0.0	0	2.3	11
4	U. OF NORTHERN COLORADO	2.7	4	0.0	0	2.7	4	0.0	0
5	OBERLIN C. OH	2.3	5	0.9	2	0.5	1	0.9	2
6	PRINCETON U. NJ	1.9	6	0.0	0	0.0	0	1.9	6
7	NEW YORK U.	1.8	6	0.0	0	0.3	1	1.5	5
8	CORNELL U. NY	1.6	7	0.0	0	0.0	0	1.6	7
	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	1.6	5	0.0	0	0.3	1	1.3	4
	NORTH CAROLINA STATE U.-RALEIGH	1.6	5	0.0	0	0.0	0	1.6	5
11	U. OF MIAMI FL	1.5	5	0.0	0	0.0	0	1.2	4
	U. OF MASSACHUSETTS AT AMHERST	1.5	4	0.0	0	0.7	2	0.7	2
13	YALE U. CT	1.4	4	0.3	1	0.0	0	1.0	3
14	SUNY U. AT BUFFALO	1.2	4	0.0	0	0.3	1	0.6	2
15	MOREHOUSE C. GA	1.1	17	0.2	3	0.2	3	0.6	9
	TUSKEGEE INSTITUTE AL	1.1	17	0.0	0	0.1	1	1.1	16
	U. OF CALIFORNIA-BERKELEY	1.1	7	0.0	0	0.0	0	1.1	7
	CUNY HUNTER C.	1.1	4	0.0	0	0.3	1	0.8	3
19	HOWARD U. DC	1.0	23	0.0	1	0.0	1	0.9	20
20	OAKWOOD C. AL	0.9	5	0.2	1	0.2	1	0.5	3
	U. OF FLORIDA	0.9	4	0.0	0	0.0	0	0.9	4

TABLE 34--CONTINUED

RATIOS FOR BLACK MEN:ALL FIELDS

RANK	INSTITUTION	ALL FIELDS RATIO	ALL FIELDS TOTAL	HUMANITIES RATIO	HUMANITIES TOTAL	EDUCATION RATIO	EDUCATION TOTAL	ALL SCIENCE RATIO	ALL SCIENCE TOTAL
22	U. OF MARYLAND COLLEGE PARK	0.8	6	0.0	0	0.3	2	0.5	4
	FISK U. TN	0.8	5	0.2	1	0.0	0	0.6	4
	OHIO STATE U.	0.8	5	0.0	0	0.2	1	0.7	4
	PURDUE U. IN	0.8	4	0.0	0	0.0	0	0.8	4
26	FORT VALLEY STATE C. GA	0.7	5	0.1	1	0.0	0	0.6	4
	U. OF MICHIGAN	0.7	5	0.0	0	0.0	0	0.7	5
28	CUNY CITY C. NY	0.6	12	0.0	1	0.1	2	0.4	9
29	U. OF SOUTH CAROLINA	0.5	4	0.0	0	0.0	0	0.4	3
	SOUTHERN ILLINOIS U. AT CARBONDALE	0.5	4	0.0	0	0.1	1	0.4	3
31	NORTH CAROLINA A & T STATE U.	0.4	9	0.0	0	0.1	3	0.2	6
	NORTH CAROLINA CENTRAL U.	0.4	7	0.0	0	0.1	1	0.3	5
	ALABAMA A & M U.	0.4	5	0.0	0	0.1	1	0.2	3
	RUTGERS U.-NEW BRUNSWICK NJ	0.4	4	0.0	0	0.1	1	0.3	3
	TENNESSEE STATE U.	0.3	6	0.1	1	0.2	3	0.1	1
	WAYNE STATE U. MI	0.3	6	0.0	0	0.1	2	0.2	3
35	SOUTH CAROLINA STATE C.	0.3	5	0.1	1	0.1	1	0.1	2
	TEXAS SOUTHERN U.	0.3	4	0.0	0	0.1	2	0.1	2
39	SOUTHERN U. & A & M LA	0.2	7	0.0	0	0.0	1	0.2	6
	U. OF DISTRICT OF COLUMBIA	0.2	4	0.0	0	0.1	1	0.2	3
	FLORIDA AGRICULTURAL & MECHANICAL U.	0.2	4	0.0	0	0.2	4	0.0	0
	MORGAN STATE U. MD	0.2	4	0.1	1	0.0	0	0.2	3

TABLE 35

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY BLACK MEN-SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	5.7	10	3.4	6	2.3	4	0.0	0	0.0	0
2	U. OF WISCONSIN-MADISON	2.6	5	0.5	1	0.0	0	1.5	3	0.5	1
3	HARVARD-RADCLIFFE MA	2.3	11	0.4	2	0.0	0	0.0	0	1.9	9
4	PRINCETON U. NJ	1.9	6	0.3	1	0.3	1	0.3	1	0.9	3
5	CORNELL U. NY	1.6	7	0.9	4	0.0	0	0.4	2	0.2	1
	NORTH CAROLINA STATE U.-RALEIGH	1.6	5	1.0	3	0.6	2	0.0	0	0.0	0
7	NEW YORK U.	1.5	5	0.6	2	0.3	1	0.3	1	0.3	1
8	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	1.3	4	0.0	0	0.7	2	0.7	2	0.0	0
9	U. OF MIAMI FL	1.2	4	0.3	1	0.3	1	0.0	0	0.6	2
10	TUSKEGEE INSTITUTE AL	1.1	16	0.1	1	0.0	0	1.0	15	0.0	0
	U. OF CALIFORNIA-BERKELEY	1.1	7	0.2	1	0.5	3	0.2	1	0.3	2
12	HOWARD U. DC	0.9	20	0.2	5	0.2	4	0.2	4	0.3	7
	U. OF FLORIDA	0.9	4	0.0	0	0.0	0	0.4	2	0.4	2
14	PURDUE U. IN	0.8	4	0.2	1	0.0	0	0.4	2	0.2	1
15	U. OF MICHIGAN	0.7	5	0.3	2	0.3	2	0.0	0	0.1	1
	OHIO STATE U.	0.7	4	0.0	0	0.2	1	0.2	1	0.3	2
17	MOREHOUSE C. GA	0.6	9	0.0	0	0.2	3	0.0	0	0.4	6
	FISK U. TN	0.6	4	0.0	0	0.2	1	0.3	2	0.2	1
	FORT VALLEY STATE C. GA	0.6	4	0.0	0	0.0	0	0.4	3	0.1	1
20	U. OF MARYLAND COLLEGE PARK	0.5	4	0.1	1	0.0	0	0.1	1	0.3	2

TABLE 35--CONTINUED

RATIOS FOR BLACK MEN:SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
21	CUNY CITY C. NY	0.4	9	0.0	1	0.1	2	0.1	2	0.2	4
22	NORTH CAROLINA CENTRAL U.	0.3	5	0.0	0	0.0	0	0.1	2	0.2	3
23	NORTH CAROLINA A & T STATE U.	0.2	6	0.0	1	0.0	1	0.1	2	0.1	2
	SOUTHERN U. & A & M LA	0.2	6	0.0	0	0.0	1	0.2	5	0.0	0

TABLE 36

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY HISPANIC MEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS		HUMANITIES		EDUCATION		ALL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
1	U. OF TENNESSEE	13.3	4	0.0	0	3.3	1	10.0	3
2	U. OF CHICAGO IL	11.8	4	2.9	1	0.0	0	8.8	3
3	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	10.6	10	0.0	0	0.0	0	10.6	10
4	WASHINGTON U. MO	9.5	4	2.4	1	0.0	0	7.1	3
5	NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY	9.1	4	0.0	0	0.0	0	9.1	4
6	U. OF WISCONSIN-MADISON	7.8	10	0.0	0	0.8	1	7.0	9
7	KANSAS STATE U.	5.1	4	0.0	0	0.0	0	5.1	4
8	YALE U. CT	3.9	8	2.5	5	0.0	0	1.5	3
9	PRINCETON U. NJ	3.6	6	0.6	1	0.0	0	3.0	5
10	U. OF CALIFORNIA-SAN DIEGO	2.8	8	1.1	3	0.0	0	1.8	5
11	CORNELL U. NY	2.6	6	0.4	1	0.0	0	2.2	5
	HARVARD-RADCLIFFE MA	2.6	5	0.5	1	0.0	0	2.0	4
13	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	2.4	7	0.7	2	0.0	0	1.7	5
14	U. OF CALIFORNIA-RIVERSIDE	2.3	6	0.0	0	0.4	1	1.9	5
15	U. OF CALIFORNIA-BERKELEY	2.2	11	0.6	3	0.0	0	1.6	8
16	U. OF MICHIGAN	2.1	4	0.5	1	0.0	0	1.6	3
17	U. OF CALIFORNIA-SANTA CRUZ	2.0	5	0.0	0	0.0	0	2.0	5
18	U. OF NOTRE DAME IN	1.9	4	0.5	1	0.5	1	0.9	2
19	RUTGERS U.-NEW BRUNSWICK NJ	1.6	6	0.0	0	0.3	1	1.3	5
20	STANFORD U. CA	1.4	6	0.0	0	0.0	0	1.4	6
21	U. OF FLORIDA	1.2	11	0.1	1	0.1	1	1.0	9

TABLE 36--CONTINUED

RATIOS FOR HISPANIC MEN:ALL FIELDS

RANK	INSTITUTION	ALL FIELDS RATIO	ALL FIELDS TOTAL	HUMANITIES RATIO	HUMANITIES TOTAL	EDUCATION RATIO	EDUCATION TOTAL	ALL SCIENCE RATIO	ALL SCIENCE TOTAL
22	U. OF NEW MEXICO	0.9	13	0.2	3	0.1	1	0.6	9
	CUNY CITY C. NY	0.9	11	0.2	2	0.0	0	0.7	9
	U. OF CALIFORNIA-LOS ANGELES	0.9	7	0.0	0	0.0	0	0.9	7
	U. OF SOUTHERN CALIFORNIA	0.9	5	0.0	0	0.0	0	0.7	4
26	CUNY QUEENS C. NY	0.8	4	0.4	2	0.2	1	0.2	1
	U. OF SOUTH FLORIDA	0.8	4	0.0	0	0.0	0	0.8	4
28	U. OF MIAMI FL	0.7	9	0.0	0	0.0	0	0.7	9
	NEW MEXICO STATE U.	0.7	8	0.0	0	0.0	0	0.7	8
30	U. OF PUERTO RICO	0.5	47	0.1	5	0.0	3	0.4	37
	U. OF PUERTO RICO-MAYAGUEZ	0.5	28	0.0	1	0.0	1	0.5	25
	U. OF TEXAS AT AUSTIN	0.5	11	0.0	1	0.0	1	0.4	9
	U. OF ARIZONA	0.5	4	0.1	1	0.0	0	0.4	3
35	U. OF TEXAS AT EL PASO	0.4	12	0.0	0	0.0	1	0.4	11
	FLORIDA INTERNATIONAL U.	0.4	8	0.1	2	0.0	0	0.3	6
	CALIFORNIA STATE U.-LONG BEACH	0.4	4	0.1	1	0.1	1	0.2	2
37	TEXAS A & I U.	0.3	4	0.0	0	0.1	1	0.2	3
38	PAN AMERICAN U. TX	0.2	4	0.0	0	0.0	1	0.1	3

TABLE 37

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY HISPANIC MEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
1	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	10.6	10	2.1	2	7.4	7	1.1	1	0.0	0
2	NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY	9.1	4	0.0	0	6.8	3	2.3	1	0.0	0
3	U. OF WISCONSIN-MADISON	7.0	9	0.8	1	1.6	2	3.1	4	1.6	2
4	KANSAS STATE U.	5.1	4	2.6	2	0.0	0	2.6	2	0.0	0
5	PRINCETON U. NJ	3.0	5	0.6	1	1.2	2	0.0	0	1.2	2
6	CORNELL U. NY	2.2	5	0.4	1	0.0	0	1.3	3	0.4	1
7	U. OF CALIFORNIA-SANTA CRUZ	2.0	5	0.0	0	0.4	1	0.8	2	0.8	2
	HARVARD-RADCLIFFE MA	2.0	4	0.0	0	0.0	0	0.5	1	1.5	3
9	U. OF CALIFORNIA-RIVERSIDE	1.9	5	0.0	0	0.4	1	0.8	2	0.8	2
10	U. OF CALIFORNIA-SAN DIEGO	1.8	5	0.0	0	0.0	0	0.7	2	1.1	3
11	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	1.7	5	0.0	0	0.3	1	0.7	2	0.7	2
12	U. OF CALIFORNIA-BERKELEY	1.6	8	0.0	0	0.8	4	0.4	2	0.4	2
13	STANFORD U. CA	1.4	6	0.5	2	0.5	2	0.0	0	0.5	2
14	RUTGERS U.-NEW BRUNSWICK NJ	1.3	5	0.3	1	0.3	1	0.3	1	0.5	2
15	U. OF FLORIDA	1.0	9	0.3	3	0.2	2	0.1	1	0.3	3
16	U. OF CALIFORNIA-LOS ANGELES	0.9	7	0.0	0	0.4	3	0.4	3	0.1	1
17	U. OF SOUTH FLORIDA	0.8	4	0.0	0	0.2	1	0.4	2	0.2	1

TABLE 37--CONTINUED

RATIOS FOR HISPANIC MEN:SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
18	CUNY CITY C. NY	0.7	9	0.2	3	0.1	1	0.0	0	0.4	5
	U. OF MIAMI FL	0.7	9	0.1	1	0.3	4	0.2	3	0.1	1
	NEW MEXICO STATE U.	0.7	8	0.0	0	0.1	1	0.4	5	0.2	2
	U. OF SOUTHERN CALIFORNIA	0.7	4	0.0	0	0.2	1	0.2	1	0.3	2
22	U. OF NEW MEXICO	0.6	9	0.1	2	0.2	3	0.0	0	0.3	4
23	U. OF PUERTO RICO-MAYAGUEZ	0.5	25	0.3	17	0.1	4	0.1	4	0.0	0
24	U. OF PUERTO RICO	0.4	37	0.1	6	0.1	8	0.1	12	0.1	11
	U. OF TEXAS AT EL PASO	0.4	11	0.1	2	0.0	1	0.0	1	0.3	7
	U. OF TEXAS AT AUSTIN	0.4	9	0.1	2	0.1	3	0.1	2	0.1	2
27	FLORIDA INTERNATIONAL U.	0.3	6	0.0	0	0.0	0	0.0	0	0.3	6

TABLE 38

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY WHITE WOMEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS		HUMANITIES		EDUCATION		ALL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
1	CALIFORNIA INSTITUTE OF TECHNOLOGY	16.4	21	0.0	0	0.0	0	16.4	21
2	HARVEY MUDD C. CA	11.5	6	0.0	0	0.0	0	11.5	6
3	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	7.2	77	0.0	0	0.0	0	7.0	75
4	SWARTHMORE C. PA	6.5	62	1.5	14	0.3	3	4.4	42
5	U. OF CHICAGO IL	4.9	63	0.6	8	0.0	0	4.2	54
6	PRINCETON U. NJ	4.6	97	1.3	27	0.1	2	3.2	67
7	REED C. OR	4.4	28	0.8	5	0.0	0	3.7	23
8	YALE U. CT	4.0	115	1.3	37	0.1	3	2.6	73
	POMONA C. CA	4.0	39	0.6	6	0.4	4	3.0	29
10	JOHNS HOPKINS U. MD	3.8	52	0.1	2	0.4	5	3.2	44
11	HARVARD-RADCLIFFE MA	3.7	126	0.9	32	0.1	2	2.7	92
	RENSSELAER POLYTECHNIC INSTITUTE NY	3.7	34	0.0	0	0.0	0	3.7	34
13	BRYN MAWR C. PA	3.5	54	1.3	21	0.1	1	2.1	32
14	CARLETON C. MN	3.3	45	0.7	9	0.1	1	2.5	35
	POLYTECHNIC INSTITUTE OF NEW YORK	3.3	5	0.0	0	0.0	0	3.3	5
16	BROWN U. RI	3.2	127	0.4	14	0.2	6	2.6	105
	U. OF ROCHESTER NY	3.2	103	0.3	11	0.1	4	2.6	86
	BRANDEIS U. MA	3.2	76	0.6	14	0.0	1	2.5	60
19	RICE U. TX	3.1	45	0.3	5	0.0	0	2.7	39

TABLE 38-CONTINUED

RATIOS FOR WHITE WOMEN:ALL FIELDS

RANK	INSTITUTION	ALL FIELDS RATIO	ALL FIELDS TOTAL	HUMANITIES RATIO	HUMANITIES TOTAL	EDUCATION RATIO	EDUCATION TOTAL	ALL SCIENCE RATIO	ALL SCIENCE TOTAL
20	STANFORD U. CA	3.0	126	0.3	14	0.0	1	2.6	108
	OBERLIN C. OH	3.0	72	0.9	23	0.0	1	1.9	47
22	CORNELL U. NY	2.9	254	0.3	23	0.1	7	2.5	215
	WELLESLEY C. MA	2.9	99	0.7	24	0.0	1	2.1	73
24	HAMPSHIRE C. MA	2.8	29	0.3	3	0.2	2	2.3	24
25	U. OF CALIFORNIA-SAN DIEGO	2.6	93	0.3	11	0.0	0	2.2	79
	WESLEYAN U. CT	2.6	45	0.3	5	0.2	4	2.1	36
	BOWDOIN C. ME	2.6	22	0.2	2	0.4	3	2.0	17
28	SMITH C. MA	2.5	112	0.5	23	0.1	3	1.9	85
	WILLIAMS C. MA	2.5	30	0.2	3	0.1	1	2.2	26
30	MOUNT HOLYOKE C. MA	2.4	86	0.4	13	0.1	3	1.9	68
	OCCIDENTAL C. CA	2.4	28	0.2	2	0.1	1	2.2	25
	GRINNELL C. IA	2.4	22	0.2	2	0.0	0	1.9	18
33	BARNARD C. NY	2.3	79	0.5	17	0.1	3	1.7	56
34	FRANKLIN & MARSHALL C. PA	2.2	31	0.2	3	0.3	4	1.7	24
	ECKERD C. FL	2.2	13	0.0	0	0.2	1	2.0	12
36	KALAMAZOO C. MI	2.1	20	0.1	1	0.1	1	1.8	17
	PITZER C. CA	2.1	14	0.0	0	0.0	0	2.1	14
38	U. OF PENNSYLVANIA	2.0	124	0.2	11	0.1	9	1.6	98
	U. OF CALIFORNIA-SANTA CRUZ	2.0	88	0.2	11	0.0	1	1.6	73
	VASSAR C. NY	2.0	53	0.4	11	0.0	1	1.5	40
	CLARK U. MA	2.0	36	0.1	1	0.2	4	1.7	30
	DARTMOUTH C. NH	2.0	34	0.4	7	0.1	2	1.5	25
	ALLEGHENY C. PA	2.0	29	0.4	6	0.1	1	1.5	22
	TRINITY C. CT	2.0	25	0.1	1	0.1	1	1.9	23

TABLE 38--CONTINUED

RATIOS FOR WHITE WOMEN:ALL FIELDS

RANK	INSTITUTION	ALL FIELDS RATIO	ALL FIELDS TOTAL	HUMANITIES RATIO	HUMANITIES TOTAL	EDUCATION RATIO	EDUCATION TOTAL	ALL SCIENCE RATIO	ALL SCIENCE TOTAL
45	DUKE U. NC	1.8	89	0.1	6	0.1	5	1.5	76
	WASHINGTON U. MO	1.8	58	0.2	7	0.2	5	1.4	45
	U. OF CALIFORNIA-RIVERSIDE	1.8	45	0.1	2	0.0	1	1.7	42
	WAKE FOREST U. NC	1.8	34	0.2	4	0.3	5	1.1	21
	COLORADO C.	1.8	28	0.3	5	0.1	1	1.4	22
	SARAH LAWRENCE C. NY	1.8	25	0.5	7	0.1	1	1.3	17
	KENYON C. OH	1.8	19	0.5	5	0.1	1	1.2	13
	CENTRE C. OF KENTUCKY	1.8	9	0.0	0	0.0	0	1.8	9
	UNITED STATES INTERNATIONAL U. CA	1.8	7	0.0	0	0.0	0	1.5	6
	C. OF IDAHO	1.8	6	0.0	0	0.0	0	1.8	6
55	NORTHWESTERN U. IL	1.7	98	0.3	19	0.1	4	1.3	72
	MACALESTER C. MN	1.7	21	0.2	2	0.2	3	1.3	16
	HAMILTON C. NY	1.7	18	0.6	6	0.0	0	0.9	10
	CENTENARY C. OF LOUISIANA	1.7	8	0.6	3	0.0	0	0.8	4

TABLE 39

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY WHITE WOMEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE		ENGINEERING		MATH-PHYSICAL SCIENCE		LIFE SCIENCE		SOCIAL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
1	CALIFORNIA INSTITUTE OF TECHNOLOGY	16.4	21	0.8	1	8.6	11	7.0	9	0.0	0
2	HARVEY MUDD C. CA	11.5	6	1.9	1	9.6	5	0.0	0	0.0	0
3	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	7.0	75	2.1	22	2.8	30	1.8	19	0.4	4
4	SWARTHMORE C. PA	4.4	42	0.1	1	0.7	7	1.1	11	2.4	23
5	U. OF CHICAGO IL	4.2	54	0.1	1	1.2	15	2.2	28	0.8	10
6	RENSSELAER POLYTECHNIC INSTITUTE NY	3.7	34	0.8	7	1.3	12	1.5	14	0.1	1
	REED C. OR	3.7	23	0.2	1	0.8	5	1.3	8	1.4	9
8	POLYTECHNIC INSTITUTE OF NEW YORK	3.3	5	1.3	2	1.3	2	0.7	1	0.0	0
9	PRINCETON U. NJ	3.2	67	0.2	4	0.9	19	0.8	16	1.3	28
	JOHNS HOPKINS U. MD	3.2	44	0.0	0	0.5	7	1.2	17	1.5	20
11	POMONA C. CA	3.0	29	0.0	0	0.3	3	1.0	10	1.6	16
12	HARVARD-RADCLIFFE MA	2.7	92	0.1	2	0.7	25	1.0	34	0.9	31
	RICE U. TX	2.7	39	0.2	3	1.0	14	0.9	13	0.6	9
14	STANFORD U. CA	2.6	108	0.1	6	0.6	26	0.8	34	1.0	42
	BROWN U. RI	2.6	105	0.1	5	0.4	15	0.7	29	1.4	56
	U. OF ROCHESTER NY	2.6	86	0.2	5	0.5	16	0.9	28	1.1	37
	YALE U. CT	2.6	73	0.0	0	0.4	11	1.1	32	1.1	30

TABLE 39-CONTINUED

RATIOS FOR WHITE WOMEN:SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
18	CORNELL U. NY	2.5	215	0.1	10	0.3	24	1.4	118	0.7	*63
	BRANDEIS U. MA	2.5	60	0.0	0	0.5	12	0.7	17	1.3	31
	CARLETON C. MN	2.5	35	0.1	2	1.2	16	0.6	8	0.7	9
21	HAMPSHIRE C. MA	2.3	24	0.0	0	0.1	1	1.0	10	1.2	13
22	U. OF CALIFORNIA-SAN DIEGO	2.2	79	0.1	3	0.6	20	0.9	31	0.7	25
	WILLIAMS C. MA	2.2	26	0.0	0	0.6	7	0.5	6	1.1	13
	OCCIDENTAL C. CA	2.2	25	0.0	0	0.9	10	0.6	7	0.7	8
25	WELLESLEY C. MA	2.1	73	0.0	1	0.3	11	0.8	27	1.0	34
	WESLEYAN U. CT	2.1	36	0.0	0	0.3	6	0.6	10	1.2	20
	BRYN MAWR C. PA	2.1	32	0.1	2	0.6	10	0.5	8	0.8	12
	PITZER C. CA	2.1	14	0.0	0	0.0	0	0.4	3	1.6	11
29	BOWDOIN C. ME	2.0	17	0.0	0	0.4	3	1.1	9	0.6	5
	ECKERD C. FL	2.0	12	0.0	0	0.3	2	0.3	2	1.3	8
31	SMITH C. MA	1.9	85	0.0	0	0.4	18	1.0	43	0.5	24
	MOUNT HOLYOKE C. MA	1.9	68	0.1	3	0.5	18	0.8	29	0.5	18
	OBERLIN C. OH	1.9	47	0.0	0	0.4	9	0.8	19	0.8	19
	TRINITY C. CT	1.9	23	0.0	0	0.4	5	0.5	6	1.0	12
	GRINNELL C. IA	1.9	18	0.0	0	0.6	6	1.2	11	0.1	1
36	KALAMAZOO C. MI	1.8	17	0.0	0	0.4	4	1.0	10	0.3	3
	CENTRE C. OF KENTUCKY	1.8	9	0.0	0	0.0	0	0.6	3	1.2	6
	C. OF IDAHO	1.8	6	0.0	0	0.6	2	0.3	1	0.9	3
39	BARNARD C. NY	1.7	56	0.0	0	0.1	5	0.5	17	1.0	34
	U. OF CALIFORNIA-RIVERSIDE	1.7	42	0.0	1	0.3	7	1.0	25	0.4	9
	CLARK U. MA	1.7	30	0.0	0	0.1	1	0.3	6	1.3	23
	FRANKLIN & MARSHALL C. PA	1.7	24	0.1	1	0.5	7	0.4	6	0.7	10

TABLE 39-CONTINUED

RATIOS FOR WHITE WOMEN:SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
43	U. OF PENNSYLVANIA	1.6	98	0.0	2	0.1	6	0.5	31	1.0	59
	U. OF CALIFORNIA-SANTA CRUZ	1.6	73	0.0	2	0.2	10	0.7	32	0.7	29
45	DUKE U. NC	1.5	76	0.1	4	0.2	11	0.4	21	0.8	40
	VASSAR C. NY	1.5	40	0.0	0	0.3	8	0.4	10	0.8	22
	DARTMOUTH C. NH	1.5	25	0.0	0	0.8	14	0.4	6	0.3	5
	ALLEGHENY C. PA	1.5	22	0.1	2	0.5	7	0.3	4	0.6	9
	JUNIATA C. PA	1.5	11	0.0	0	0.4	3	0.8	6	0.3	2
	UNITED STATES INTERNATIONAL U. CA	1.5	6	0.0	0	0.0	0	0.0	0	1.5	6
51	WASHINGTON U. MO	1.4	45	0.1	3	0.2	7	0.4	13	0.7	22
	CASE WESTERN RESERVE U. OH	1.4	29	0.2	5	0.2	4	0.6	12	0.4	8
	COLORADO C.	1.4	22	0.0	0	0.3	5	0.3	5	0.8	12
	ILLINOIS BENEDICTINE C.	1.4	8	0.2	1	0.5	3	0.7	4	0.0	0
55	U. OF CALIFORNIA-BERKELEY	1.3	181	0.0	3	0.1	19	0.6	82	0.6	77
	SUNY U. AT BUFFALO	1.3	89	0.0	1	0.2	16	0.5	33	0.6	39
	SUNY U. AT STONY BROOK	1.3	80	0.1	3	0.2	10	0.5	30	0.6	37
	NORTHWESTERN U. IL	1.3	72	0.1	7	0.2	10	0.3	17	0.7	38
	TUFTS U. MA	1.3	51	0.1	2	0.2	8	0.2	7	0.9	34
	CARNEGIE-MELLON U. PA	1.3	21	0.4	7	0.2	3	0.2	4	0.4	7
	FURMAN U. SC	1.3	21	0.0	0	0.4	7	0.4	6	0.5	8
	SARAH LAWRENCE C. NY	1.3	17	0.0	0	0.1	1	0.1	1	1.1	15
	MACALESTER C. MN	1.3	16	0.1	1	0.2	3	0.5	6	0.5	6
	BATES C. ME	1.3	14	0.1	1	0.2	2	0.6	7	0.4	4
	SUNY C. OF ENVIRONMENTAL SCIENCE & FORESTRY	1.3	10	0.0	0	0.1	1	1.1	8	0.1	1
	WORCESTER POLYTECHNIC INSTITUTE MA	1.3	4	0.0	0	0.7	2	0.7	2	0.0	0

TABLE 40

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY WHITE MEN-ALL FIELDS

RANK	INSTITUTION	ALL FIELDS		HUMANITIES		EDUCATION		ALL SCIENCE	
		RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL	RATIO	TOTAL
1	CALIFORNIA INSTITUTE OF TECHNOLOGY	21.8	242	0.0	0	0.0	0	21.8	242
2	HARVEY MUDD C. CA	16.0	86	0.2	1	0.0	0	15.8	85
3	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	10.6	676	0.1	7	0.0	0	10.3	661
4	REED C. OR	8.6	74	1.4	12	0.0	0	7.2	62
5	SWARTHMORE C. PA	8.2	91	0.7	8	0.2	2	7.1	79
6	U. OF CHICAGO IL	8.0	200	0.6	16	0.1	3	7.2	179
7	POMONA C. CA	7.5	79	0.8	8	0.0	0	6.6	69
8	CARLETON C. MN	7.4	104	0.9	13	0.0	0	6.4	91
9	KALAMAZOO C. MI	6.8	75	0.5	5	0.0	0	6.2	68
10	PRINCETON U. NJ	6.7	317	0.8	39	0.1	3	5.8	274
11	OBERLIN C. OH	6.5	146	1.4	31	0.1	3	4.9	109
12	HARVARD-RADCLIFFE MA	6.3	487	0.7	57	0.0	2	5.3	414
13	HAVERFORD C. PA	6.2	96	0.9	14	0.1	2	5.2	80
14	HOWARD U. DC	5.9	4	0.0	0	0.0	0	5.9	4
15	EARLHAM C. IN	5.6	41	0.5	4	0.3	2	4.7	35
16	U. OF CALIFORNIA-SAN DIEGO	5.4	267	0.3	13	0.1	3	5.0	248
17	YALE U. CT	5.1	284	0.9	51	0.0	1	4.2	230
18	CASE WESTERN RESERVE U. OH	4.9	138	0.1	4	0.0	0	4.6	131
19	BROWN U. RI	4.8	253	0.5	24	0.0	2	4.2	221
	U. OF ROCHESTER NY	4.8	208	0.5	21	0.0	2	4.3	183
	RICE U. TX	4.8	154	0.3	11	0.1	2	4.3	140
	WESLEYAN U. CT	4.8	104	0.7	14	0.0	1	4.1	88

TABLE 40--CONTINUED

RATIOS FOR WHITE MEN:ALL FIELDS

RANK	INSTITUTION	ALL FIELDS RATIO	ALL FIELDS TOTAL	HUMANITIES RATIO	HUMANITIES TOTAL	EDUCATION RATIO	EDUCATION TOTAL	ALL SCIENCE RATIO	ALL SCIENCE TOTAL
23	U. OF CALIFORNIA-RIVERSIDE	4.7	133	0.2	7	0.0	1	4.4	125
24	JOHNS HOPKINS U. MD	4.6	164	0.1	5	0.0	1	4.4	157
25	GRINNELL C. IA	4.4	50	0.8	9	0.1	1	3.5	40
26	AMHERST C. MA	4.2	86	1.0	20	0.0	0	3.2	66
27	CORNELL U. NY	4.1	512	0.2	31	0.0	3	3.8	476
	HAMPSHIRE C. MA	4.1	39	0.2	2	0.0	0	3.9	37
29	STANFORD U. CA	4.0	259	0.3	18	0.0	3	3.6	236
	BRANDEIS U. MA	4.0	99	0.6	16	0.0	0	3.2	79
31	U. OF CALIFORNIA-SANTA CRUZ	3.9	171	0.4	17	0.0	2	3.4	150
32	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	3.8	214	0.5	28	0.0	2	3.2	178
	MUHLENBERG C. PA	3.8	58	0.0	0	0.1	1	3.7	56
34	RENSSELAER POLYTECHNIC INSTITUTE NY	3.7	227	0.0	0	0.0	0	3.7	226
	C. OF WILLIAM & MARY VA	3.7	129	0.3	11	0.1	2	3.2	114
	DAVIDSON C. NC	3.7	66	0.6	11	0.1	2	2.8	49
	BELOIT C. WI	3.7	35	0.3	3	0.1	1	3.2	31
	JUILLIARD SCHOOL NY	3.7	16	3.7	16	0.0	0	0.0	0
39	C. OF WOOSTER OH	3.6	53	0.1	2	0.1	2	3.2	48
	COOPER UNION NY	3.6	42	0.0	0	0.0	0	3.6	42
41	CALVIN C. MI	3.5	89	0.5	14	0.1	3	2.8	72
	BATES C. ME	3.5	46	0.1	1	0.1	1	3.3	43
	EASTERN NAZARENE C. MA	3.5	17	0.4	2	0.6	3	2.5	12

TABLE 40--CONTINUED

RATIOS FOR WHITE MEN:ALL FIELDS

RANK	INSTITUTION	ALL FIELDS RATIO	ALL FIELDS TOTAL	HUMANITIES RATIO	HUMANITIES TOTAL	EDUCATION RATIO	EDUCATION TOTAL	ALL SCIENCE RATIO	ALL SCIENCE TOTAL
44	SUNY U. AT STONY BROOK	3.4	245	0.1	10	0.0	1	3.2	233
	CARNEGIE-MELLON U. PA	3.4	117	0.0	0	0.1	2	3.3	114
	WHEATON C. IL	3.4	69	0.7	14	0.2	4	2.4	48
	WILLIAMS C. MA	3.4	69	0.4	9	0.0	0	2.9	59
	BOWDOIN C. ME	3.4	57	0.4	6	0.1	1	2.9	48
49	U. OF CALIFORNIA-IRVINE	3.3	177	0.1	8	0.0	1	3.1	168
50	U. OF CALIFORNIA-DAVIS	3.2	331	0.1	9	0.0	4	3.0	314
	DUKE U. NC	3.2	191	0.3	20	0.1	4	2.8	165
	KENYON C. OH	3.2	50	0.6	9	0.1	2	2.5	39
	BLACKBURN U. IL	3.2	11	0.0	0	0.0	0	3.2	11
54	U. OF CALIFORNIA-BERKELEY	3.1	557	0.2	42	0.0	5	2.8	500
	FRANKLIN & MARSHALL C. PA	3.1	72	0.1	3	0.0	0	3.0	69
	LAWRENCE U. WI	3.1	32	0.6	6	0.1	1	2.4	25
	NEBRASKA WESLEYAN U. NE	3.1	22	0.1	1	0.1	1	2.8	20
	WASHINGTON C. MD	3.1	17	0.2	1	0.0	0	2.9	16
	KANSAS WESLEYAN	3.1	9	0.0	0	0.0	0	3.1	9
60	LEBANON VALLEY C. PA	3.0	27	0.1	1	0.0	0	2.8	25
	HOUGHTON C. NY	3.0	24	0.6	5	0.1	1	2.1	17
	ECKERD C. FL	3.0	21	0.0	0	0.0	0	3.0	21
	BARD C. NY	3.0	14	0.6	3	0.0	0	2.4	11

TABLE 41

LEADING UNDERGRADUATE SOURCES OF 1975-86
DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS
DOCTORAL PRODUCTIVITY ADJUSTED FOR INSTITUTIONAL SIZE
DOCTORATES EARNED BY WHITE MEN-ALL SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
1	CALIFORNIA INSTITUTE OF TECHNOLOGY	21.8	242	4.4	49	14.7	163	2.2	25	0.5	5
2	HARVEY MUDD C. CA	15.8	85	1.7	9	12.6	68	0.9	5	0.6	3
3	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	10.3	661	3.1	198	5.2	332	1.5	95	0.6	36
4	U. OF CHICAGO IL	7.2	179	0.1	3	3.6	89	2.3	57	1.2	30
	REED C. OR	7.2	62	0.1	1	3.9	34	2.0	17	1.2	10
6	SWARTHMORE C. PA	7.1	79	0.4	4	3.0	33	2.0	22	1.8	20
7	POMONA C. CA	6.6	69	0.0	0	3.9	41	1.5	16	1.1	12
8	CARLETON C. MN	6.4	91	0.1	2	4.3	61	1.3	19	0.6	9
9	KALAMAZOO C. MI	6.2	68	0.4	4	3.0	33	1.3	14	1.5	17
10	HOWARD U. DC	5.9	4	2.9	2	0.0	0	0.0	0	2.9	2
11	PRINCETON U. NJ	5.8	274	1.0	48	3.0	144	0.9	42	0.8	40
12	HARVARD-RADCLIFFE MA	5.3	414	0.2	14	2.4	184	1.8	137	1.0	79
13	HAVERFORD C. PA	5.2	80	0.2	3	1.8	28	1.5	23	1.7	26
14	U. OF CALIFORNIA-SAN DIEGO	5.0	248	0.5	25	2.2	110	1.6	80	0.7	33
15	OBERLIN C. OH	4.9	109	0.1	3	1.9	43	1.3	29	1.5	34
16	EARLHAM C. IN	4.7	35	0.1	1	1.8	13	2.3	17	0.5	4
17	CASE WESTERN RESERVE U. OH	4.6	131	1.3	37	2.2	62	0.7	21	0.4	11
18	JOHNS HOPKINS U. MD	4.4	157	0.6	20	1.4	50	1.9	68	0.5	19
	U. OF CALIFORNIA-RIVERSIDE	4.4	125	0.1	3	1.6	44	1.7	47	1.1	31

TABLE 41--CONTINUED

RATIOS FOR WHITE MEN:SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
20	U. OF ROCHESTER NY	4.3	183	0.5	22	1.8	78	1.1	49	0.8	34
	RICE U. TX	4.3	140	0.9	30	2.3	75	0.8	26	0.3	9
22	YALE U. CT	4.2	230	0.3	14	1.6	88	1.2	65	1.1	63
	BROWN U. RI	4.2	221	0.6	33	1.8	95	0.9	50	0.8	43
24	WESLEYAN U. CT	4.1	88	0.1	2	1.6	34	1.3	27	1.2	25
25	HAMPSHIRE C. MA	3.9	37	0.0	0	1.0	10	1.3	12	1.6	15
26	CORNELL U. NY	3.8	476	0.8	97	1.0	125	1.6	207	0.4	47
27	RENSSELAER POLYTECHNIC INSTITUTE NY	3.7	226	1.4	84	1.7	103	0.5	32	0.1	7
	MUHLENBERG C. PA	3.7	56	0.2	3	0.9	14	2.0	30	0.6	9
29	STANFORD U. CA	3.6	236	0.6	37	1.3	85	0.9	62	0.8	52
	COOPER UNION NY	3.6	42	1.7	20	1.5	17	0.4	5	0.0	0
31	GRINNELL C. IA	3.5	40	0.0	0	1.3	15	1.2	14	1.0	11
32	U. OF CALIFORNIA-SANTA CRUZ	3.4	150	0.0	2	1.1	48	1.2	52	1.1	48
33	CARNEGIE-MELLON U. PA	3.3	114	1.2	42	1.3	46	0.5	16	0.3	10
	BATES C. ME	3.3	43	0.1	1	1.7	22	1.1	15	0.4	5
35	SUNY U. AT STONY BROOK	3.2	233	0.2	15	1.1	77	1.1	79	0.9	62
	COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	3.2	178	0.6	32	1.2	68	0.7	37	0.7	41
	C. OF WILLIAM & MARY VA	3.2	114	0.2	7	1.2	42	1.1	37	0.8	28
	BRANDEIS U. MA	3.2	79	0.2	4	0.6	14	1.1	28	1.3	33
	AMHERST C. MA	3.2	66	0.1	2	1.4	28	1.0	20	0.8	16
	C. OF WOOSTER OH	3.2	48	0.0	0	2.4	35	0.6	9	0.3	4
	BELOIT C. WI	3.2	31	0.2	2	1.7	16	0.6	6	0.7	7
	BLACKBURN U. IL	3.2	11	0.0	0	0.9	3	1.4	5	0.9	3

TABLE 41--CONTINUED

RATIOS FOR WHITE MEN:SCIENCE

RANK	INSTITUTION	ALL SCIENCE RATIO	ALL SCIENCE TOTAL	ENGINEERING RATIO	ENGINEERING TOTAL	MATH-PHYSICAL SCIENCE RATIO	MATH-PHYSICAL SCIENCE TOTAL	LIFE SCIENCE RATIO	LIFE SCIENCE TOTAL	SOCIAL SCIENCE RATIO	SOCIAL SCIENCE TOTAL
43	U. OF CALIFORNIA-IRVINE	3.1	168	0.1	5	1.1	61	1.3	73	0.5	29
	KANSAS WESLEYAN	3.1	9	0.0	0	2.1	6	0.7	2	0.3	1
45	U. OF CALIFORNIA-DAVIS	3.0	314	0.3	28	0.6	62	1.9	193	0.3	31
	FRANKLIN & MARSHALL C. PA	3.0	69	0.2	4	1.4	32	0.7	16	0.7	17
	ECKERD C. FL	3.0	21	0.0	0	1.1	8	1.1	8	0.7	5
48	WILLIAMS C. MA	2.9	59	0.0	1	1.4	29	0.6	12	0.8	17
	BOWDOIN C. ME	2.9	48	0.0	0	1.0	17	1.4	23	0.5	8
	NEW MEXICO INSTITUTE OF MINING & TECH.	2.9	18	0.5	3	1.9	12	0.5	3	0.0	0
	WASHINGTON C. MD	2.9	16	0.0	0	2.2	12	0.2	1	0.5	3
52	U. OF CALIFORNIA-BERKELEY	2.8	500	0.4	69	1.0	182	0.9	156	0.5	93
	DUKE U. NC	2.8	165	0.5	27	0.8	48	1.0	59	0.5	31
	CALVIN C. MI	2.8	72	0.2	4	1.3	34	0.8	20	0.5	14
	DAVIDSON C. NC	2.8	49	0.2	4	1.1	20	0.6	10	0.8	15
	HOPE C. MI	2.8	46	0.1	2	1.5	24	0.7	12	0.5	8
	LEBANON VALLEY C. PA	2.8	25	0.1	1	1.7	15	0.9	8	0.1	1
	NEBRASKA WESLEYAN U. NE	2.8	20	0.0	0	1.0	7	0.8	6	1.0	7
59	BUCKNELL U. PA	2.7	84	0.4	13	1.0	31	0.8	26	0.5	14
	CLARK U. MA	2.7	53	0.1	1	0.4	8	0.8	16	1.4	28
61	STEVENS INSTITUTE OF TECHNOLOGY NJ	2.6	42	0.5	8	1.9	31	0.2	3	0.0	0
	POLYTECHNIC INSTITUTE OF NEW YORK	2.6	41	0.6	9	1.8	28	0.3	4	0.0	0
	WABASH C. IN	2.6	35	0.0	0	1.3	17	1.0	13	0.4	5
	URSINUS C. PA	2.6	32	0.0	0	1.4	18	0.9	11	0.2	3

TABLE 42

RACIAL/ETHNIC DISTRIBUTION OF PARTICIPATION
AT EACH OF FOUR LEVELS OF HIGHER EDUCATION

	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC	WHITE
1986 DOCTORATES*	99	1,050	946	674	21,130
	0.4%	4.4%	4.0%	2.8%	88.4%
1986 GRADUATE ENROLLMENT**	5,000	43,000	72,000	46,000	1,132,000
	0.4%	3.3%	5.5%	3.5%	87.2%
1984-1985 BACCALAUREATES***	4,246	25,395	57,473	25,874	826,106
	0.5%	2.7%	6.1%	2.8%	88.0%
1986 UNDERGRADUATE ENROLLMENT*** (4-YEAR INSTITUTIONS)	39,512	262,111	615,249	278,491	6,339,593
	0.5%	3.5%	8.2%	3.7%	84.1%
1980 CENSUS POPULATION****	0.7%	1.6%	11.7%	6.4%	80.2%

* COYLE (1987)
** CHRONICLE OF HIGHER EDUCATION, JULY 6, 1988
*** CHRONICLE OF HIGHER EDUCATION, ALMANAC, SEPTEMBER 1, 1988
**** HILL, KROE & WHITENER (1987)

APPENDIX A

INSTITUTIONS INCLUDED IN LISTS OF LEADING BACCALAUREATE SOURCES OF 1975-86 DOCTORATES EARNED BY INDIVIDUALS RECEIVING BACCALAUREATE DEGREES 1975-82 FROM U.S. INSTITUTIONS

INSTITUTION	LIST	
ALABAMA A & M U.	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	
ALLEGHENY C. PA	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
AMHERST C. MA	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
U. OF ARIZONA	MEN RATIOS-ALL FIELDS:H MEN TOTALS-ALL FIELDS:H WOMEN RATIOS-ALL FLDS:H WOMEN TOTALS-ALL FLDS:H	MEN TOTALS-ALL SCIENCE:W
BARD C. NY	MEN RATIOS-ALL FIELDS:W	
BARNARD C. NY	WOMEN RATIOS-ALL FLDS:A,H,W WOMEN TOTALS-ALL FLDS:A,H,W	WOMEN RATIOS-ALL SCIENCE:A,H,W WOMEN TOTALS-ALL SCIENCE:A,H,W
BATES C. ME	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN RATIOS-ALL SCIENCE:W
BELOIT C. WI	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
BLACKBURN U. IL	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
BOSTON U. MA	WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	
BOWDOIN C. ME	MEN RATIOS-ALL FIELDS:W WOMEN RATIOS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN RATIOS-ALL SCIENCE:W
BRANDEIS U. MA	MEN RATIOS-ALL FIELDS:W WOMEN RATIOS-ALL FLDS:W WOMEN TOTALS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN RATIOS-ALL SCIENCE:W WOMEN TOTALS-ALL SCIENCE:W
BRIGHAM YOUNG U. UT	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
BROWN U. RI	MEN RATIOS-ALL FIELDS:A,W MEN TOTALS-ALL FIELDS:A,W WOMEN RATIOS-ALL FLDS:B,W WOMEN TOTALS-ALL FLDS:B,W	MEN RATIOS-ALL SCIENCE:A,W MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:B,W WOMEN TOTALS-ALL SCIENCE:B,W

APPENDIX A-CONTINUED

INSTITUTION	LIST	
BRYN MAWR C. PA	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
BUCKNELL U. PA		MEN RATIOS-ALL SCIENCE:W
U. OF CALIFORNIA-BERKELEY	MEN RATIOS-ALL FIELDS:A,B,H,W	MEN RATIOS-ALL SCIENCE:A,B,H,W
	MEN TOTALS-ALL FIELDS:A,B,H,W	MEN TOTALS-ALL SCIENCE:A,B,H,W
	WOMEN RATIOS-ALL FLDS:A,B,H	WOMEN RATIOS-ALL SCIENCE:A,B,H,W
	WOMEN TOTALS-ALL FLDS:A,B,H,W	WOMEN TOTALS-ALL SCIENCE:A,B,H,W
U. OF CALIFORNIA-DAVIS	MEN RATIOS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
	WOMEN RATIOS-ALL FLDS:A	WOMEN RATIOS-ALL SCIENCE:A
	WOMEN TOTALS-ALL FLDS:A,W	WOMEN TOTALS-ALL SCIENCE:A,W
U. OF CALIFORNIA-IRVINE	MEN RATIOS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
	WOMEN RATIOS-ALL FLDS:A	WOMEN RATIOS-ALL SCIENCE:A
	WOMEN TOTALS-ALL FLDS:A	WOMEN TOTALS-ALL SCIENCE:A
U. OF CALIFORNIA-LOS ANGELES	MEN RATIOS-ALL FIELDS:A,H	MEN RATIOS-ALL SCIENCE:A,H
	MEN TOTALS-ALL FIELDS:A,H,W	MEN TOTALS-ALL SCIENCE:A,H,W
	WOMEN RATIOS-ALL FLDS:A,B,H	WOMEN RATIOS-ALL SCIENCE:A,B,H
	WOMEN TOTALS-ALL FLDS:A,B,H,W	WOMEN TOTALS-ALL SCIENCE:A,B,H,W
U. OF CALIFORNIA-RIVERSIDE	MEN RATIOS-ALL FIELDS:H,W	MEN RATIOS-ALL SCIENCE:H,W
	MEN TOTALS-ALL FIELDS:H	MEN TOTALS-ALL SCIENCE:H
	WOMEN RATIOS-ALL FLDS:H,W	WOMEN RATIOS-ALL SCIENCE:H,W
	WOMEN TOTALS-ALL FLDS:H	WOMEN TOTALS-ALL SCIENCE:H
U. OF CALIFORNIA-SAN DIEGO	MEN RATIOS-ALL FIELDS:A,H,W	MEN RATIOS-ALL SCIENCE:A,H,W
	MEN TOTALS-ALL FIELDS:A,H,W	MEN TOTALS-ALL SCIENCE:A,H,W
	WOMEN RATIOS-ALL FLDS:A,H,W	WOMEN RATIOS-ALL SCIENCE:A,W
	WOMEN TOTALS-ALL FLDS:A,H,W	WOMEN TOTALS-ALL SCIENCE:A,W
U. OF CALIFORNIA-SANTA BARBARA	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
	WOMEN RATIOS-ALL FLDS:A	WOMEN RATIOS-ALL SCIENCE:A
	WOMEN TOTALS-ALL FLDS:A,W	WOMEN TOTALS-ALL SCIENCE:A,W
U. OF CALIFORNIA-SANTA CRUZ	MEN RATIOS-ALL FIELDS:A,H,W	MEN RATIOS-ALL SCIENCE:H,W
	MEN TOTALS-ALL FIELDS:A,H,W	MEN TOTALS-ALL SCIENCE:H,W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
CALIFORNIA INSTITUTE OF TECHNOLOGY	MEN RATIOS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W

APPENDIX A-CONTINUED

INSTITUTION	LIST	
CALIFORNIA STATE U.-FULLERTON	WOMEN RATIOS-ALL FLDS:H WOMEN TOTALS-ALL FLDS:H	WOMEN RATIOS-ALL SCIENCE:H WOMEN TOTALS-ALL SCIENCE:H
CALIFORNIA STATE U.-LONG BEACH	MEN RATIOS-ALL FIELDS:A,H MEN TOTALS-ALL FIELDS:A,H WOMEN RATIOS-ALL FLDS:H WOMEN TOTALS-ALL FLDS:H	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A
CALVIN C. MI	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
CARLETON C. MN	MEN RATIOS-ALL FIELDS:W WOMEN RATIOS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN RATIOS-ALL SCIENCE:W
CARNEGIE-MELLON U. PA	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN RATIOS-ALL SCIENCE:W
CASE WESTERN RESERVE U. OH	MEN RATIOS-ALL FIELDS:A,W MEN TOTALS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A,W MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:W
CENTENARY C. OF LOUISIANA	WOMEN RATIOS-ALL FLDS:W	
CENTRE C. OF KENTUCKY	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
U. OF CHICAGO IL	MEN RATIOS-ALL FIELDS:A,H,W MEN TOTALS-ALL FIELDS:A,H,W WOMEN RATIOS-ALL FLDS:W WOMEN TOTALS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:A,W MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:W WOMEN TOTALS-ALL SCIENCE:W
U. OF CINCINNATI OH	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
CUNY BROOKLYN C. NY	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
CUNY CITY C. NY	MEN RATIOS-ALL FIELDS:A,B,H MEN TOTALS-ALL FIELDS:A,B,H WOMEN RATIOS-ALL FLDS:H WOMEN TOTALS-ALL FLDS:H	MEN RATIOS-ALL SCIENCE:A,B,H MEN TOTALS-ALL SCIENCE:A,B WOMEN RATIOS-ALL SCIENCE:H WOMEN TOTALS-ALL SCIENCE:H
CUNY HUNTER C.	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B	
CUNY QUEENS C. NY	MEN RATIOS-ALL FIELDS:H MEN TOTALS-ALL FIELDS:H WOMEN RATIOS-ALL FLDS:H WOMEN TOTALS-ALL FLDS:H,W	WOMEN RATIOS-ALL SCIENCE:H WOMEN TOTALS-ALL SCIENCE:H
CLARK U. MA	WOMEN RATIOS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN RATIOS-ALL SCIENCE:W

APPENDIX A-CONTINUED

INSTITUTION	LIST	
U. OF COLORADO AT BOULDER	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
COLORADO C.	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
COLORADO STATE U.	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
COLUMBIA U. NY	MEN RATIOS-ALL FIELDS:A,B,H,W	MEN RATIOS-ALL SCIENCE:A,B,H,W
[ALL DIV.EXCEPT BARNARD]	MEN TOTALS-ALL FIELDS:A,B,H,W	MEN TOTALS-ALL SCIENCE:A,B,H,W
U. OF CONNECTICUT	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
COOPER UNION NY	MEN RATIOS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A	MEN TOTALS-ALL SCIENCE:A
CORNELL U. NY	MEN RATIOS-ALL FIELDS:A,B,H,W	MEN RATIOS-ALL SCIENCE:A,B,H,W
	MEN TOTALS-ALL FIELDS:A,B,H,W	MEN TOTALS-ALL SCIENCE:A,B,H,W
	WOMEN RATIOS-ALL FLDS:A,W	WOMEN RATIOS-ALL SCIENCE:A,W
	WOMEN TOTALS-ALL FLDS:A,W	WOMEN TOTALS-ALL SCIENCE:A,W
DARTMOUTH C. NH	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
DAVIDSON C. NC	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
U. OF DELAWARE	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:A	WOMEN RATIOS-ALL SCIENCE:A
	WOMEN TOTALS-ALL FLDS:A,W	WOMEN TOTALS-ALL SCIENCE:A,W
U. OF DISTRICT OF COLUMBIA	MEN RATIOS-ALL FIELDS:B	
	MEN TOTALS-ALL FIELDS:B	
	WOMEN RATIOS-ALL FLDS:B	
	WOMEN TOTALS-ALL FLDS:B	
DUKE U. NC	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
DUKE U. NC	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
EARLHAM C. IN	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
EASTERN NAZARENE C. MA	MEN RATIOS-ALL FIELDS:W	
ECKERD C. FL	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W

APPENDIX A-CONTINUED

INSTITUTION	LIST	
FISK U. TN	MEN RATIOS-ALL FIELDS:B	MEN RATIOS-ALL SCIENCE:B
	MEN TOTALS-ALL FIELDS:B	MEN TOTALS-ALL SCIENCE:B
	WOMEN RATIOS-ALL FLDS:B	WOMEN RATIOS-ALL SCIENCE:B
	WOMEN TOTALS-ALL FLDS:B	WOMEN TOTALS-ALL SCIENCE:B
U. OF FLORIDA	MEN RATIOS-ALL FIELDS:B,H	MEN RATIOS-ALL SCIENCE:B,H
	MEN TOTALS-ALL FIELDS:B,H,W	MEN TOTALS-ALL SCIENCE:B,H,W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
FLORIDA AGRICULTURAL & MECHANICAL U.	MEN RATIOS-ALL FIELDS:B	
	MEN TOTALS-ALL FIELDS:B	
FLORIDA INTERNATIONAL U.	MEN RATIOS-ALL FIELDS:H	MEN RATIOS-ALL SCIENCE:H
	MEN TOTALS-ALL FIELDS:H	MEN TOTALS-ALL SCIENCE:H
	WOMEN RATIOS-ALL FLDS:H	WOMEN RATIOS-ALL SCIENCE:H
	WOMEN TOTALS-ALL FLDS:H	WOMEN TOTALS-ALL SCIENCE:H
FLORIDA STATE U.	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
FORT VALLEY STATE C. GA	MEN RATIOS-ALL FIELDS:B	MEN RATIOS-ALL SCIENCE:B
	MEN TOTALS-ALL FIELDS:B	MEN TOTALS-ALL SCIENCE:B
FRANKLIN & MARSHALL C. PA	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
FURMAN U. SC	WOMEN RATIOS-	WOMEN RATIOS-ALL SCIENCE:W
GEORGE WASHINGTON U. DC	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A	MEN TOTALS-ALL SCIENCE:A
U. OF GEORGIA	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:B	
	WOMEN TOTALS-ALL FLDS:B	
GRINNELL C. IA	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
HAMILTON C. NY	WOMEN RATIOS-ALL FLDS:W	
HAMPSHIRE C. MA	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
HAMPTON U. VA	WOMEN RATIOS-ALL FLDS:B	WOMEN RATIOS-ALL SCIENCE:B
	WOMEN TOTALS-ALL FLDS:B	WOMEN TOTALS-ALL SCIENCE:B
HARVARD-RADCLIFFE MA	MEN RATIOS-ALL FIELDS:A,B,H,W	MEN RATIOS-ALL SCIENCE:A,B,H,W
	MEN TOTALS-ALL FIELDS:A,B,H,W	MEN TOTALS-ALL SCIENCE:A,B,H,W
	WOMEN RATIOS-ALL FLDS:A,B,W	WOMEN RATIOS-ALL SCIENCE:A,B,W
	WOMEN TOTALS-ALL FLDS:A,B,W	WOMEN TOTALS-ALL SCIENCE:A,B,W

INSTITUTION	LIST	
HARVEY MUDD C. CA	MEN RATIOS-ALL FIELDS:A,W MEN TOTALS-ALL FIELDS:A WOMEN RATIOS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:A,W MEN TOTALS-ALL SCIENCE:A WOMEN RATIOS-ALL SCIENCE:W
HAVERFORD C. PA	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
U. OF HAWAII AT MANOA	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A WOMEN RATIOS-ALL FLDS:A WOMEN TOTALS-ALL FLDS:A	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A WOMEN RATIOS-ALL SCIENCE:A WOMEN TOTALS-ALL SCIENCE:A
HOPE C. MI		MEN RATIOS-ALL SCIENCE:W
HOUGHTON C. NY	MEN RATIOS-ALL FIELDS:W	
U. OF HOUSTON TX	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A
HOWARD U. DC	MEN RATIOS-ALL FIELDS:B,W MEN TOTALS-ALL FIELDS:B WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	MEN RATIOS-ALL SCIENCE:B,W MEN TOTALS-ALL SCIENCE:B WOMEN RATIOS-ALL SCIENCE:B WOMEN TOTALS-ALL SCIENCE:B
C. OF IDAHO	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
ILLINOIS BENEDICTINE C.		WOMEN RATIOS-ALL SCIENCE:W
ILLINOIS INSTITUTE OF TECHNOLOGY	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A
ILLINOIS STATE U.	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A	
U. OF ILLINOIS AT CHICAGO	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A WOMEN RATIOS-ALL FLDS:A WOMEN TOTALS-ALL FLDS:A	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A WOMEN RATIOS-ALL SCIENCE:A WOMEN TOTALS-ALL SCIENCE:A
U. OF ILLINOIS AT URBANA-CHAMPAIGN	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A,W WOMEN RATIOS-ALL FLDS:A WOMEN TOTALS-ALL FLDS:A,W	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:A WOMEN TOTALS-ALL SCIENCE:A,W
INDIANA U.-BLOOMINGTON	MEN TOTALS-ALL FIELDS:W WOMEN TOTALS-ALL FLDS:W	MEN TOTALS-ALL SCIENCE:W WOMEN TOTALS-ALL SCIENCE:W
IOWA STATE U. OF SCIENCE & TECHNOLOGY	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A,W WOMEN RATIOS-ALL FLDS:A WOMEN TOTALS-ALL FLDS:A,W	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:A WOMEN TOTALS-ALL SCIENCE:A,W

INSTITUTION	LIST	
JACKSON STATE U. MS	WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	
JOHNS HOPKINS U. MD	MEN RATIOS-ALL FIELDS:A,W MEN TOTALS-ALL FIELDS:A,W WOMEN RATIOS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:A,W MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:W
JOHNSON C. SMITH U. NC	WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	
JUILLIARD SCHOOL NY	MEN RATIOS-ALL FIELDS:W WOMEN RATIOS-ALL FLDS:A WOMEN TOTALS-ALL FLDS:A	
JUNIATA C. PA		WOMEN RATIOS-ALL SCIENCE:W
KALAMAZOO C. MI	MEN RATIOS-ALL FIELDS:W WOMEN RATIOS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN RATIOS-ALL SCIENCE:W
U. OF KANSAS	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W WOMEN TOTALS-ALL SCIENCE:W
KANSAS STATE U.	MEN RATIOS-ALL FIELDS:A,H MEN TOTALS-ALL FIELDS:A,H	MEN RATIOS-ALL SCIENCE:A,H MEN TOTALS-ALL SCIENCE:A,H
KANSAS WESLEYAN	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
KENYON C. OH	MEN RATIOS-ALL FIELDS:W WOMEN RATIOS-ALL FLDS:W	
LAWRENCE U. WI	MEN RATIOS-ALL FIELDS:W	
LEBANON VALLEY C. PA	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
LOUISIANA STATE U. & A & M	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A
MACALESTER C. MN	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
U. OF MARYLAND COLLEGE PARK	MEN RATIOS-ALL FIELDS:A,B MEN TOTALS-ALL FIELDS:A,B,W WOMEN RATIOS-ALL FLDS:A,B WOMEN TOTALS-ALL FLDS:A,B,W	MEN RATIOS-ALL SCIENCE:A,B MEN TOTALS-ALL SCIENCE:A,B,W WOMEN RATIOS-ALL SCIENCE:A WOMEN TOTALS-ALL SCIENCE:A,W
U. OF MASSACHUSETTS AT AMHERST	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B,W WOMEN TOTALS-ALL FLDS:W	MEN TOTALS-ALL SCIENCE:W WOMEN TOTALS-ALL SCIENCE:W

INSTITUTION	LIST	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MEN RATIOS-ALL FIELDS:A,B,H,W	MEN RATIOS-ALL SCIENCE:A,B,H,W
	MEN TOTALS-ALL FIELDS:A,B,H,W	MEN TOTALS-ALL SCIENCE:A,B,H,W
	WOMEN RATIOS-ALL FLDS:A,W	WOMEN RATIOS-ALL SCIENCE:A,W
	WOMEN TOTALS-ALL FLDS:A,W	WOMEN TOTALS-ALL SCIENCE:A,W
U. OF MIAMI FL	MEN RATIOS-ALL FIELDS:B,H	MEN RATIOS-ALL SCIENCE:B,H
	MEN TOTALS-ALL FIELDS:B,H	MEN TOTALS-ALL SCIENCE:B,H
	WOMEN RATIOS-ALL FLDS:H	WOMEN RATIOS-ALL SCIENCE:H
	WOMEN TOTALS-ALL FLDS:H	WOMEN TOTALS-ALL SCIENCE:H
MIAMI U. OH	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
MICHIGAN STATE U.	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:B	
	WOMEN TOTALS-ALL FLDS:B,W	WOMEN TOTALS-ALL SCIENCE:W
U. OF MICHIGAN	MEN RATIOS-ALL FIELDS:A,B,H	MEN RATIOS-ALL SCIENCE:A,B
	MEN TOTALS-ALL FIELDS:A,B,H,W	MEN TOTALS-ALL SCIENCE:A,B,W
	WOMEN RATIOS-ALL FLDS:A,B	WOMEN RATIOS-ALL SCIENCE:A,B
	WOMEN TOTALS-ALL FLDS:A,B,W	WOMEN TOTALS-ALL SCIENCE:A,B,W
MILLS C. CA	WOMEN RATIOS-ALL FLDS:A	WOMEN RATIOS-ALL SCIENCE:A
	WOMEN TOTALS-ALL FLDS:A	WOMEN TOTALS-ALL SCIENCE:A
U. OF MINNESOTA-TWIN CITIES	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
	WOMEN RATIOS-ALL FLDS:A	WOMEN RATIOS-ALL SCIENCE:A
	WOMEN TOTALS-ALL FLDS:A,W	WOMEN TOTALS-ALL SCIENCE:A,W
U. OF MISSOURI-COLUMBIA	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
MOREHOUSE C. GA	MEN RATIOS-ALL FIELDS:B	MEN RATIOS-ALL SCIENCE:B
	MEN TOTALS-ALL FIELDS:B	MEN TOTALS-ALL SCIENCE:B
MORGAN STATE U. MD	MEN RATIOS-ALL FIELDS:B	
	MEN TOTALS-ALL FIELDS:B	
	WOMEN RATIOS-ALL FLDS:B	WOMEN RATIOS-ALL SCIENCE:B
	WOMEN TOTALS-ALL FLDS:B	WOMEN TOTALS-ALL SCIENCE:B
MOUNT HOLYOKE C. MA	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
MUHLENBERG C. PA	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
NEBRASKA WESLEYAN U. NE	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
U. OF NEW MEXICO	MEN RATIOS-ALL FIELDS:H	MEN RATIOS-ALL SCIENCE:H
	MEN TOTALS-ALL FIELDS:H	MEN TOTALS-ALL SCIENCE:H
	WOMEN RATIOS-ALL FLDS:H	WOMEN RATIOS-ALL SCIENCE:H
	WOMEN TOTALS-ALL FLDS:H	WOMEN TOTALS-ALL SCIENCE:H

INSTITUTION	LIST	
NEW MEXICO INSTITUTE OF MINING & TECH.	MEN RATIOS-ALL FIELDS:H MEN TOTALS-ALL FIELDS:H	MEN RATIOS-ALL SCIENCE:H,W MEN TOTALS-ALL SCIENCE:H
NEW MEXICO STATE U.	MEN RATIOS-ALL FIELDS:H MEN TOTALS-ALL FIELDS:H WOMEN RATIOS-ALL FLDS:H WOMEN TOTALS-ALL FLDS:H	MEN RATIOS-ALL SCIENCE:H MEN TOTALS-ALL SCIENCE:H
NEW YORK U.	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	MEN RATIOS-ALL SCIENCE:B MEN TOTALS-ALL SCIENCE:B WOMEN RATIOS-ALL SCIENCE:B WOMEN TOTALS-ALL SCIENCE:B,W
NORTH CAROLINA A & T STATE U.	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	MEN RATIOS-ALL SCIENCE:B MEN TOTALS-ALL SCIENCE:B WOMEN RATIOS-ALL SCIENCE:B WOMEN TOTALS-ALL SCIENCE:B
NORTH CAROLINA CENTRAL U.	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	MEN RATIOS-ALL SCIENCE:B MEN TOTALS-ALL SCIENCE:B
NORTH CAROLINA STATE U.-RALEIGH	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B,W	MEN RATIOS-ALL SCIENCE:B MEN TOTALS-ALL SCIENCE:B,W
U. OF NORTH CAROLINA AT CHAPEL HILL	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A,W WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:B WOMEN TOTALS-ALL SCIENCE:B
NORTHEASTERN U. MA	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A
U. OF NORTHERN COLORADO	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B	
NORTHWESTERN U. IL	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A,W WOMEN RATIOS-ALL FLDS:B,W WOMEN TOTALS-ALL FLDS:B,W	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:W WOMEN TOTALS-ALL SCIENCE:W
U. OF NOTRE DAME IN	MEN RATIOS-ALL FIELDS:H MEN TOTALS-ALL FIELDS:H,W	MEN TOTALS-ALL SCIENCE:W
OAKWOOD C. AL	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B	

APPENDIX A-CONTINUED

INSTITUTION	LIST	
OBERLIN C. OH	MEN RATIOS-ALL FIELDS:A,B,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A,B,W	MEN TOTALS-ALL SCIENCE:A
	WOMEN RATIOS-ALL FLDS:B,W	WOMEN RATIOS-ALL SCIENCE:B,W
	WOMEN TOTALS-ALL FLDS:B,W	WOMEN TOTALS-ALL SCIENCE:B,W
OCCIDENTAL C. CA	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
OHIO STATE U.	MEN RATIOS-ALL FIELDS:B	MEN RATIOS-ALL SCIENCE:B
	MEN TOTALS-ALL FIELDS:B,W	MEN TOTALS-ALL SCIENCE:B,W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
OREGON STATE U.	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A	MEN TOTALS-ALL SCIENCE:A
PAN AMERICAN U. TX	MEN RATIOS-ALL FIELDS:H	
	MEN TOTALS-ALL FIELDS:H	
U. OF PENNSYLVANIA	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
PENNSYLVANIA STATE U.	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
U. OF PITTSBURGH PA	WOMEN RATIOS-ALL FLDS:B	
	WOMEN TOTALS-ALL FLDS:B,W	WOMEN TOTALS-ALL SCIENCE:W
PITZER C. CA	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
POLYTECHNIC INSTITUTE OF NEW YORK	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A	MEN TOTALS-ALL SCIENCE:A
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
POMONA C. CA	MEN RATIOS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A	MEN TOTALS-ALL SCIENCE:A
	WOMEN RATIOS-ALL FLDS:A,W	WOMEN RATIOS-ALL SCIENCE:A,W
	WOMEN TOTALS-ALL FLDS:A	WOMEN TOTALS-ALL SCIENCE:A
PRINCETON U. NJ	MEN RATIOS-ALL FIELDS:A,B,H,W	MEN RATIOS-ALL SCIENCE:A,B,H,W
	MEN TOTALS-ALL FIELDS:A,B,H,W	MEN TOTALS-ALL SCIENCE:A,B,H,W
	WOMEN RATIOS-ALL FLDS:A,B,W	WOMEN RATIOS-ALL SCIENCE:A,B,W
	WOMEN TOTALS-ALL FLDS:A,B,W	WOMEN TOTALS-ALL SCIENCE:A,B,W
U. OF PUERTO RICO-MAYAGUEZ	MEN RATIOS-ALL FIELDS:H	MEN RATIOS-ALL SCIENCE:H
	MEN TOTALS-ALL FIELDS:H	MEN TOTALS-ALL SCIENCE:H
	WOMEN RATIOS-ALL FLDS:H	WOMEN RATIOS-ALL SCIENCE:H
	WOMEN TOTALS-ALL FLDS:H	WOMEN TOTALS-ALL SCIENCE:H

APPENDIX A-CONTINUED

INSTITUTION		LIST
U. OF PUERTO RICO	MEN RATIOS-ALL FIELDS:H	MEN RATIOS-ALL SCIENCE:H
	MEN TOTALS-ALL FIELDS:H	MEN TOTALS-ALL SCIENCE:H
	WOMEN RATIOS-ALL FLDS:H	WOMEN RATIOS-ALL SCIENCE:H
	WOMEN TOTALS-ALL FLDS:H	WOMEN TOTALS-ALL SCIENCE:H
PURDUE U. IN	MEN RATIOS-ALL FIELDS:A,B	MEN RATIOS-ALL SCIENCE:A,B
	MEN TOTALS-ALL FIELDS:A,B,W	MEN TOTALS-ALL SCIENCE:A,B,W
	WOMEN RATIOS-ALL FLDS:B	WOMEN RATIOS-ALL SCIENCE:B
	WOMEN TOTALS-ALL FLDS:B,W	WOMEN TOTALS-ALL SCIENCE:B,W
REED C. OR	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
RENSSELAER POLYTECHNIC INSTITUTE NY	MEN RATIOS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
RICE U. TX	MEN RATIOS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
U. OF ROCHESTER NY	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
RUTGERS U.-NEW BRUNSWICK NJ	MEN RATIOS-ALL FIELDS:A,B,H	MEN RATIOS-ALL SCIENCE:A,H
	MEN TOTALS-ALL FIELDS:A,B,H,W	MEN TOTALS-ALL SCIENCE:A,H,W
	WOMEN RATIOS-ALL FLDS:A,H	WOMEN RATIOS-ALL SCIENCE:A,H
	WOMEN TOTALS-ALL FLDS:A,H,W	WOMEN TOTALS-ALL SCIENCE:A,H,W
SAN DIEGO STATE U. CA	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A	MEN TOTALS-ALL SCIENCE:A
SAN JOSE STATE U. CA	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A	MEN TOTALS-ALL SCIENCE:A
SARAH LAWRENCE C. NY	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
SMITH C. MA	WOMEN RATIOS-ALL FLDS:A,W	WOMEN RATIOS-ALL SCIENCE:A,W
	WOMEN TOTALS-ALL FLDS:A,W	WOMEN TOTALS-ALL SCIENCE:A,W
SOUTH CAROLINA STATE C.	MEN RATIOS-ALL FIELDS:B	
	MEN TOTALS-ALL FIELDS:B	
	WOMEN RATIOS-ALL FLDS:B	
	WOMEN TOTALS-ALL FLDS:B	

APPENDIX A-CONTINUED

INSTITUTION	LIST	
U. OF SOUTH CAROLINA	MEN RATIOS-ALL FIELDS:B	
	MEN TOTALS-ALL FIELDS:B	
	WOMEN RATIOS-ALL FLDS:B	WOMEN RATIOS-ALL SCIENCE:B
	WOMEN TOTALS-ALL FLDS:B	WOMEN TOTALS-ALL SCIENCE:B
U. OF SOUTH FLORIDA	MEN RATIOS-ALL FIELDS:H	MEN RATIOS-ALL SCIENCE:H
	MEN TOTALS-ALL FIELDS:H	MEN TOTALS-ALL SCIENCE:H
U. OF SOUTHERN CALIFORNIA	MEN RATIOS-ALL FIELDS:A,H	MEN RATIOS-ALL SCIENCE:A,H
	MEN TOTALS-ALL FIELDS:A,H	MEN TOTALS-ALL SCIENCE:A,H
	WOMEN RATIOS-ALL FLDS:H	
	WOMEN TOTALS-ALL FLDS:H	
SOUTHERN ILLINOIS U. AT CARBONDALE	MEN RATIOS-ALL FIELDS:B	
	MEN TOTALS-ALL FIELDS:B	
SOUTHERN U. & A & M LA	MEN RATIOS-ALL FIELDS:B	MEN RATIOS-ALL SCIENCE:B
	MEN TOTALS-ALL FIELDS:B	MEN TOTALS-ALL SCIENCE:B
SPELMAN C. GA	WOMEN RATIOS-ALL FLDS:B	WOMEN RATIOS-ALL SCIENCE:B
	WOMEN TOTALS-ALL FLDS:B	WOMEN TOTALS-ALL SCIENCE:B
STANFORD U. CA	MEN RATIOS-ALL FIELDS:A,H,W	MEN RATIOS-ALL SCIENCE:A,H,W
	MEN TOTALS-ALL FIELDS:A,H,W	MEN TOTALS-ALL SCIENCE:A,H,W
	WOMEN RATIOS-ALL FLDS:A,H,W	WOMEN RATIOS-ALL SCIENCE:A,W
	WOMEN TOTALS-ALL FLDS:A,H,W	WOMEN TOTALS-ALL SCIENCE:A,W
SUNY U. AT ALBANY	MEN RATIOS-ALL FIELDS:A	
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:W
	WOMEN RATIOS-ALL FLDS:H	
	WOMEN TOTALS-ALL FLDS:H,W	WOMEN TOTALS-ALL SCIENCE:W
SUNY U. AT BINGHAMTON	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
SUNY U. AT BUFFALO	MEN RATIOS-ALL FIELDS:A,B	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A,B,W	MEN TOTALS-ALL SCIENCE:A,W
		WOMEN RATIOS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
SUNY U. AT STONY BROOK	MEN RATIOS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
		WOMEN RATIOS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
SUNY C. OF ENVIRONMENTAL SCIENCE & FORESTRY		WOMEN RATIOS-ALL SCIENCE:W
STEVENS INSTITUTE OF TECHNOLOGY NJ		MEN RATIOS-ALL SCIENCE:W

INSTITUTION	LIST	
SWARTHMORE C. PA	MEN RATIOS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A,W
	MEN TOTALS-ALL FIELDS:A	MEN TOTALS-ALL SCIENCE:A
	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	
TEMPLE U. PA	WOMEN RATIOS-ALL FLDS:B	
	WOMEN TOTALS-ALL FLDS:B	
U. OF TENNESSEE	MEN RATIOS-ALL FIELDS:H	
	MEN TOTALS-ALL FIELDS:H	
TENNESSEE STATE U.	MEN RATIOS-ALL FIELDS:B	
	MEN TOTALS-ALL FIELDS:B	
	WOMEN RATIOS-ALL FLDS:B	
	WOMEN TOTALS-ALL FLDS:B	
U. OF TEXAS AT AUSTIN	MEN RATIOS-ALL FIELDS:H	MEN RATIOS-ALL SCIENCE:H
	MEN TOTALS-ALL FIELDS:H,W	MEN TOTALS-ALL SCIENCE:H,W
	WOMEN RATIOS-ALL FLDS:H	WOMEN RATIOS-ALL SCIENCE:H
	WOMEN TOTALS-ALL FLDS:H,W	WOMEN TOTALS-ALL SCIENCE:H,W
U. OF TEXAS AT EL PASO	MEN RATIOS-ALL FIELDS:H	MEN RATIOS-ALL SCIENCE:H
	MEN TOTALS-ALL FIELDS:H	MEN TOTALS-ALL SCIENCE:H
	WOMEN RATIOS-ALL FLDS:H	WOMEN RATIOS-ALL SCIENCE:H
	WOMEN TOTALS-ALL FLDS:H	WOMEN TOTALS-ALL SCIENCE:H
TEXAS A & I U.	MEN RATIOS-ALL FIELDS:H	
	MEN TOTALS-ALL FIELDS:H	
TEXAS A. & M. U.	MEN RATIOS-ALL FIELDS:A	MEN RATIOS-ALL SCIENCE:A
	MEN TOTALS-ALL FIELDS:A,W	MEN TOTALS-ALL SCIENCE:A,W
TEXAS SOUTHERN U.	MEN RATIOS-ALL FIELDS:B	
	MEN TOTALS-ALL FIELDS:B	
TRINITY C. CT	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
TUFTS U. MA		WOMEN RATIOS-ALL SCIENCE:W
	WOMEN TOTALS-ALL FLDS:W	WOMEN TOTALS-ALL SCIENCE:W
TUSKEGEE INSTITUTE AL	MEN RATIOS-ALL FIELDS:B	MEN RATIOS-ALL SCIENCE:B
	MEN TOTALS-ALL FIELDS:B	MEN TOTALS-ALL SCIENCE:B
	WOMEN RATIOS-ALL FLDS:B	
	WOMEN TOTALS-ALL FLDS:B	
UNITED STATES INTERNATIONAL U. CA	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
URSINUS C. PA		MEN RATIOS-ALL SCIENCE:W

APPENDIX A-CONTINUED

INSTITUTION	LIST	
U. OF UTAH	MEN TOTALS-ALL FIELDS:W	MEN TOTALS-ALL SCIENCE:W
VASSAR C. NY	WOMEN RATIOS-ALL FLDS:W	WOMEN RATIOS-ALL SCIENCE:W
U. OF VIRGINIA	MEN TOTALS-ALL FIELDS:W WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B,W	MEN TOTALS-ALL SCIENCE:W WOMEN TOTALS-ALL SCIENCE:W
VIRGINIA POLYTECHNIC INSTITUTE	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A,W	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A,W
VIRGINIA STATE U.	WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	WOMEN RATIOS-ALL SCIENCE:B WOMEN TOTALS-ALL SCIENCE:B
WABASH C. IN		MEN RATIOS-ALL SCIENCE:W
WAKE FOREST U. NC	WOMEN RATIOS-ALL FLDS:W	
U. OF WASHINGTON	MEN RATIOS-ALL FIELDS:A MEN TOTALS-ALL FIELDS:A,W WOMEN RATIOS-ALL FLDS:A WOMEN TOTALS-ALL FLDS:A,W	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:A WOMEN TOTALS-ALL SCIENCE:A,W
WASHINGTON C. MD	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
WASHINGTON U. MO	MEN RATIOS-ALL FIELDS:A,H MEN TOTALS-ALL FIELDS:A,H WOMEN RATIOS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:A MEN TOTALS-ALL SCIENCE:A WOMEN RATIOS-ALL SCIENCE:W
WAYNE STATE U. MI	MEN RATIOS-ALL FIELDS:B MEN TOTALS-ALL FIELDS:B WOMEN RATIOS-ALL FLDS:B WOMEN TOTALS-ALL FLDS:B	
WELLESLEY C. MA	WOMEN RATIOS-ALL FLDS:A,B,W WOMEN TOTALS-ALL FLDS:A,B,W	WOMEN RATIOS-ALL SCIENCE:A,B,W WOMEN TOTALS-ALL SCIENCE:A,B,W
WESLEYAN U. CT	MEN RATIOS-ALL FIELDS:W WOMEN RATIOS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN RATIOS-ALL SCIENCE:W
WHEATON C. IL	MEN RATIOS-ALL FIELDS:W	
C. OF WILLIAM & MARY VA	MEN RATIOS-ALL FIELDS:W WOMEN TOTALS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN TOTALS-ALL SCIENCE:W
WILLIAMS C. MA	MEN RATIOS-ALL FIELDS:W WOMEN RATIOS-ALL FLDS:W	MEN RATIOS-ALL SCIENCE:W WOMEN RATIOS-ALL SCIENCE:W

APPENDIX A-CONTINUED

INSTITUTION	LIST	
U. OF WISCONSIN-MADISON	MEN RATIOS-ALL FIELDS:A,B,H MEN TOTALS-ALL FIELDS:A,B,H,W WOMEN RATIOS-ALL FLDS:A WOMEN TOTALS-ALL FLDS:A,W	MEN RATIOS-ALL SCIENCE:A,B,H MEN TOTALS-ALL SCIENCE:A,B,H,W WOMEN RATIOS-ALL SCIENCE:A WOMEN TOTALS-ALL SCIENCE:A,W
C. OF WOOSTER OH	MEN RATIOS-ALL FIELDS:W	MEN RATIOS-ALL SCIENCE:W
WORCESTER POLYTECHNIC INSTITUTE MA		WOMEN RATIOS-ALL SCIENCE:W
YALE U. CT	MEN RATIOS-ALL FIELDS:A,B,H,W MEN TOTALS-ALL FIELDS:A,B,H,W WOMEN RATIOS-ALL FLDS:A,B,W WOMEN TOTALS-ALL FLDS:A,B,W	MEN RATIOS-ALL SCIENCE:A,W MEN TOTALS-ALL SCIENCE:A,W WOMEN RATIOS-ALL SCIENCE:A,B,W WOMEN TOTALS-ALL SCIENCE:A,B,W

APPENDIX B

INTRODUCTION

Tables B-1 - B-8 summarize the doctorates awarded by U.S. institutions between 1975 and 1986 to 1975-1982 baccalaureate recipients with temporary U.S. visas. The temporary visa holders earned 17% of all of the doctorates earned by the 1975-82 graduates. Men earned 86% of the doctorates earned by the temporary visa holders; 39% were earned by Asian men and 34% were earned by White men (Table B-1).

Tables B-9 - B-13 list the institutions whose 1975-82 graduates with temporary U.S. visas had earned at least 4 doctorates from a U.S. institution in any field by 1986. No institution had more than 3 Black, Hispanic, or White women 1975-82 graduates with temporary visas who had earned a doctorate at a U.S. institution by 1986.

APPENDIX B

TABLE 1

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82
BACCALAUREATE RECIPIENTS FROM ALL INSTITUTIONS
BY RACE, SEX, AND CITIZENSHIP

	U.S. CITIZENS & PERMANENT VISAS	TEMPORARY VISAS	TOTAL
AMERICAN INDIAN	155	0	155
MEN	99	0	99
WOMEN	56	0	56
ASIAN	2469	5424	7893
MEN	1797	4657	6454
WOMEN	672	767	1439
BLACK	1346	1080	2426
MEN	782	979	1761
WOMEN	564	101	665
HISPANIC	1178	720	1898
MEN	737	605	1342
WOMEN	441	115	556
TOTAL MINORITY	5148	7224	12372
MEN	3415	6241	9656
WOMEN	1733	983	2716
WHITE	53481	4828	58309
MEN	38478	4099	42577
WOMEN	15003	729	15732
TOTAL	58629	12052	70681
MEN	41893	10340	52233
WOMEN	16736	1712	18448

APPENDIX B

TABLE 2

SUMMARY
1975-86 DOCTORATES AWARDED TO 1975-82 BACCALAUREATE
RECIPIENTS FROM U.S. INSTITUTIONS BY RACE, SEX, AND CITIZENSHIP

	U.S. CITIZENS & PERMANENT VISAS	TEMPORARY VISAS	TOTAL
AMERICAN INDIAN	154	0	154
MEN	99	0	99
WOMEN	55	0	55
ASIAN	1530	652	2182
MEN	1075	549	1624
WOMEN	455	103	558
BLACK	1281	516	1797
MEN	729	469	1198
WOMEN	552	47	599
HISPANIC	1067	85	1152
MEN	657	73	730
WOMEN	410	12	422
TOTAL MINORITY	4032	1253	5285
MEN	2560	1091	3651
WOMEN	1472	162	1634
WHITE	52033	571	52604
MEN	37334	487	37821
WOMEN	14699	84	14783
TOTAL	56065	1824	57889
MEN	39894	1578	41472
WOMEN	16171	246	16417

APPENDIX B

TABLE 3

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM U.S. INSTITUTIONS BY RACE AND FIELD
MEN AND WOMEN WITH TEMPORARY VISAS

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	0	0	0	0	0	0	0	0	0	0
ASIAN	652	18	28	580	207	141	165	67	26	0
BLACK	516	20	178	281	66	38	98	79	36	1
HISPANIC	85	2	8	74	18	22	19	15	1	0
TOTAL MINORITY	1253	40	214	935	291	201	282	161	63	1
WHITE	571	28	58	467	245	85	57	80	18	0
TOTAL	1824	68	272	1402	536	286	339	241	81	1

TABLE 4

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM U.S. INSTITUTIONS BY RACE AND FIELD
MEN AND WOMEN WITH TEMPORARY VISAS

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	0	0	0	0	0	0	0	0	0	0
ASIAN	4772	85	179	4292	1967	1292	645	388	214	2
BLACK	564	45	102	384	70	66	153	95	33	0
HISPANIC	635	27	49	552	133	208	124	87	7	0
TOTAL MINORITY	5971	157	330	5228	2170	1566	922	570	254	2
WHITE	4257	266	243	3539	1203	1155	552	629	201	8
TOTAL	10228	423	573	8767	3373	2721	1474	1199	455	10

APPENDIX B

TABLE 5

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE
RECIPIENTS FROM U.S. INSTITUTIONS BY RACE AND FIELD
MEN WITH TEMPORARY VISAS

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	0	0	0	0	0	0	0	0	0	0
ASIAN	549	6	17	505	198	125	124	58	21	0
BLACK	469	17	158	262	65	34	89	74	32	0
HISPANIC	73	1	5	66	18	22	16	10	1	0
TOTAL MINORITY	1091	24	180	833	281	181	229	142	54	0
WHITE	487	15	36	422	241	79	38	64	14	0
TOTAL	1578	39	216	1255	522	260	267	206	68	0

TABLE 6

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE
RECIPIENTS FROM U.S. INSTITUTIONS BY RACE AND FIELD
MEN WITH TEMPORARY VISAS

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	0	0	0	0	0	0	0	0	0	0
ASIAN	4108	47	105	3769	1920	1087	459	303	185	2
BLACK	510	40	84	355	69	61	137	88	31	0
HISPANIC	532	20	30	478	123	181	102	72	4	0
TOTAL MINORITY	5150	107	219	4602	2112	1329	698	463	220	2
WHITE	3612	165	168	3099	1135	1028	429	507	174	6
TOTAL	8762	272	387	7701	3247	2357	1127	970	394	8

APPENDIX B

TABLE 7

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM U.S. INSTITUTIONS BY RACE AND FIELD
WOMEN WITH TEMPORARY VISAS

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	0	0	0	0	0	0	0	0	0	0
ASIAN	103	12	11	75	9	16	41	9	5	0
BLACK	47	3	20	19	1	4	9	5	4	1
HISPANIC	12	1	3	8	0	0	3	5	0	0
TOTAL MINORITY	162	16	34	102	10	20	53	19	9	1
WHITE	84	13	22	45	4	6	19	16	4	0
TOTAL	246	29	56	147	14	26	72	35	13	1

TABLE 8

SUMMARY
1975-86 U.S. DOCTORATES AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS FROM U.S. INSTITUTIONS BY RACE AND FIELD
WOMEN WITH TEMPORARY VISAS

	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE	PROF. FIELDS	OTHER
INDIAN	0	0	0	0	0	0	0	0	0	0
ASIAN	664	38	74	523	47	205	186	85	29	0
BLACK	54	5	18	29	1	5	16	7	2	0
HISPANIC	103	7	19	74	10	27	22	15	3	0
TOTAL MINORITY	821	50	111	626	58	237	224	107	34	0
WHITE	645	101	75	440	68	127	123	122	27	2
TOTAL	1466	151	186	1066	126	364	347	229	61	2

APPENDIX B

TABLE 9

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS WITH TEMPORARY VISAS
LEADING SOURCES FOR ASIAN WOMEN

INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
U. OF CALIFORNIA-BERKELEY	4	0	0	4	1	1	2	0
LOUISIANA STATE U. & A & M	4	0	0	4	0	0	4	0
U. OF WISCONSIN-MADISON	4	0	0	3	0	1	2	0

APPENDIX B

TABLE 10

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS WITH TEMPORARY VISAS
LEADING SOURCES FOR ASIAN MEN

INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	25	0	1	22	14	6	0	2
LOUISIANA STATE U. & A & M	22	0	0	22	3	0	17	2
U. OF WISCONSIN-MADISON	19	0	0	19	9	3	6	1
CALIFORNIA INSTITUTE OF TECHNOLOGY	18	0	0	18	12	5	0	1
U. OF CALIFORNIA-BERKELEY	14	0	0	13	5	6	1	1
PRINCETON U. NJ	10	0	0	10	2	3	1	4
CORNELL U. NY	9	2	0	7	5	1	1	0
U. OF HAWAII AT MANOA	9	0	0	9	5	2	2	0
U. OF MINNESOTA-TWIN CITIES	9	0	0	9	5	2	2	0
U. OF CALIFORNIA-DAVIS	8	0	0	8	2	0	6	0
U. OF TEXAS AT AUSTIN	8	1	0	7	5	0	1	1
BEREA C. KY	7	0	0	7	2	2	1	2
COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	7	0	0	6	5	1	0	0
IOWA STATE U. OF SCIENCE & TECHNOLOGY	7	0	0	7	2	1	3	1
WASHINGTON STATE U.	7	0	1	5	0	1	4	0
U. OF CALIFORNIA-LOS ANGELES	6	0	0	6	2	2	0	2
TEXAS A. & M. U.	6	0	0	6	4	2	0	0
ILLINOIS INSTITUTE OF TECHNOLOGY	5	0	0	4	3	1	0	0

APPENDIX B

TABLE 10-CONTINUED

INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
U. OF KANSAS	5	0	0	5	2	0	2	1
U. OF MASSACHUSETTS AT AMHERST	5	0	0	5	2	0	2	1
NORTHEASTERN U. MA	5	0	0	5	5	0	0	0
RENSSELAER POLYTECHNIC INSTITUTE NY	5	0	0	5	5	0	0	0
U. OF ROCHESTER NY	5	0	0	5	2	2	0	1
SOUTHERN ILLINOIS U. AT CARBONDALE	5	0	1	4	1	2	1	0
SUNY U. AT BUFFALO	5	0	0	4	2	1	1	0
U. OF WISCONSIN-EAU CLAIRE	5	0	0	5	0	1	2	2
YALE U. CT	5	0	0	5	3	1	0	1
CALIFORNIA STATE U.-FRESNO	4	0	0	4	1	0	3	0
U. OF ILLINOIS AT URBANA-CHAMPAIGN	4	0	0	4	3	0	1	0
U. OF MICHIGAN	4	0	0	4	3	0	1	0
U. OF NEBRASKA-LINCOLN	4	0	0	4	1	1	1	1
NORTHERN ILLINOIS U.	4	0	2	2	0	2	0	0
U. OF OKLAHOMA	4	0	0	4	3	0	1	0
PURDUE U. IN	4	0	0	3	2	1	0	0
RICE U. TX	4	0	0	4	4	0	0	0
SUNY U. AT STONY BROOK	4	0	0	4	0	2	2	0
U. OF TENNESSEE	4	0	1	3	1	0	2	0
U. OF TULSA OK	4	0	0	4	3	1	0	0
U. OF WASHINGTON	4	0	0	4	3	0	1	0

APPENDIX B

TABLE 11

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS WITH TEMPORARY VISAS
LEADING SOURCES FOR BLACK MEN

INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
HOWARD U. DC	14	1	1	12	3	1	4	4
U. OF NEBRASKA-LINCOLN	12	0	2	8	1	1	5	1
TUSKEGEE INSTITUTE AL	10	0	4	6	0	0	6	0
SUNY U. AT BUFFALO	7	1	2	3	0	0	1	2
CENTRAL STATE U. OK	6	2	3	1	0	1	0	0
WESTERN ILLINOIS U.	6	0	4	1	0	0	1	0
U. OF WISCONSIN-MADISON	6	0	4	2	1	0	0	1
CORNELL U. NY	5	0	1	4	0	0	2	2
IOWA STATE U. OF SCIENCE & TECHNOLOGY	5	0	1	4	1	0	1	2
U. OF KANSAS	5	0	0	5	4	0	0	1
U. OF MINNESOTA-TWIN CITIES	5	0	0	5	1	0	4	0
OHIO STATE U.	5	0	1	4	3	0	1	0
OREGON STATE U.	5	0	2	3	1	1	1	0
U. OF TULSA OK	5	0	0	5	5	0	0	0
WESTERN MICHIGAN U.	5	0	3	2	1	0	0	1
EASTERN ILLINOIS U.	4	0	3	0	0	0	0	0
FLORIDA STATE U.	4	0	3	1	0	1	0	0
OKLAHOMA STATE U.	4	0	2	2	1	0	1	0
RUTGERS U. NJ-NEW BRUNSWICK	4	0	0	4	0	2	1	1
U. OF TEXAS AT AUSTIN	4	0	2	2	0	0	1	1

APPENDIX B

TABLE 12

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS WITH TEMPORARY VISAS
LEADING SOURCES FOR HISPANIC MEN

INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
LOUISIANA STATE U. & A & M	4	0	0	4	1	3	0	0

APPENDIX B

TABLE 13

LEADING UNDERGRADUATE SOURCES OF 1975-86 DOCTORATES
AWARDED TO 1975-82 BACCALAUREATE RECIPIENTS WITH TEMPORARY VISAS
LEADING SOURCES FOR WHITE MEN

INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	19	0	0	19	10	8	1	0
U. OF WISCONSIN-MADISON	12	0	0	12	6	2	2	2
U. OF ILLINOIS AT URBANA-CHAMPAIGN	10	0	0	10	9	0	0	1
U. OF SOUTHERN CALIFORNIA	10	0	0	10	9	1	0	0
U. OF MISSOURI-COLUMBIA	9	0	0	8	6	0	2	0
CORNELL U. NY	8	0	0	8	4	2	1	1
U. OF MICHIGAN	8	0	0	8	8	0	0	0
OKLAHOMA STATE U.	8	0	3	5	4	0	1	0
U. OF TEXAS AT AUSTIN	8	0	0	8	6	1	0	1
BRIGHAM YOUNG U. UT	7	1	0	6	1	2	2	1
U. OF CALIFORNIA-BERKELEY	7	0	0	7	5	2	0	0
CALIFORNIA INSTITUTE OF TECHNOLOGY	7	0	0	7	3	4	0	0
HARVARD-RADCLIFFE MA	7	2	0	5	1	2	1	1
IOWA STATE U. OF SCIENCE & TECHNOLOGY	7	0	0	7	3	1	1	2
PRINCETON U. NJ	7	0	0	7	1	2	0	4
SUNY U. AT BUFFALO	7	0	0	7	6	0	0	1
U. OF CALIFORNIA-LOS ANGELES	6	0	0	6	5	1	0	0
COLUMBIA U. NY [ALL DIV. EXCEPT BARNARD]	6	1	0	5	3	2	0	0

TABLE B-13 CONTINUED

INSTITUTION	ALL FIELDS	HUMANITIES	EDUCATION	ALL SCIENCE	ENGINEERING	MATH-PHYSICAL SCIENCE	LIFE SCIENCE	SOCIAL SCIENCE
LOUISIANA STATE U. & A & M	6	0	0	6	4	0	2	0
PURDUE U. IN	6	0	0	6	6	0	0	0
UTAH STATE U.	6	0	0	6	3	1	1	1
U. OF HOUSTON TX	5	0	1	4	1	0	2	1
U. OF KANSAS	5	0	0	4	3	0	1	0
U. OF MINNESOTA-TWIN CITIES	5	0	0	5	4	0	1	0
MISSISSIPPI STATE U.	5	0	0	5	5	0	0	0
YALE U. CT	5	0	0	5	2	1	0	2
CUNY QUEENS C. NY	4	0	0	4	0	0	0	4
GEORGIA INSTITUTE OF TECHNOLOGY	4	0	0	4	3	1	0	0
U. OF ILLINOIS AT CHICAGO	4	0	0	4	3	1	0	0
U. OF IOWA	4	0	1	3	1	2	0	0
PENNSYLVANIA STATE U.	4	0	0	4	4	0	0	0
U. OF TULSA OK	4	0	0	4	4	0	0	0
U. OF WASHINGTON	4	0	1	3	1	1	0	1
WAYNE STATE U. MI	4	0	0	4	3	0	0	1